



The



# CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

MARCH 26 1960

**Now it's  
Spring Cleaning time  
make sure  
you've plenty of  
Savlon Barrier Cream**

*it protects hands for wet and dry work)*

THIS IS the season for still bigger sales of Savlon -purpose Barrier Cream - the cream that protects hands for both wet *and* dry jobs. It seals out hard water and grease for hours. It protects the hands from the degreasing effect of detergents and prevents grime from becoming ingrained in the skin. Sold through chemists only.

**Advertised in the  
big-circulation women's magazines**

RETAIL PRICE  
3/- A TUBE



# Savlon



Barrier Cream

IMPERIAL CHEMICAL INDUSTRIES LIMITED  
PHARMACEUTICALS DIVISION WILMSLOW CHESHIRE



# Year-round Advertising

for mounting year-round sales

**WOMEN'S MAGAZINES INCLUDE: WOMAN'S MIRROR  
WOMAN'S REALM • WOMAN'S DAY • WOMAN'S WEEKLY  
WOMAN'S ILLUSTRATED**

Introduced only 2 years ago, Potter's ANTASMA tablets have satisfied a wide demand, and are now established as the on-the-spot treatment for Asthma and Hay Fever. This year's advertising will extend the appeal, running right through from February to December, and includes many carefully-selected women's magazines to reach the greatest number of potential customers throughout the whole country.

*Sole Proprietors and Manufacturers:*



**POTTER & CLARKE LIMITED**

RIVER ROAD • BARKING • ESSEX • TELEPHONE: RIPPLEWAY 1105

Agents for the Republic of Eire: LILMAR PHARMACEUTICALS LTD., Santry, Dublin.



**2/-**

Retail: **2/-** small size

**4/-**

**10/-** large size  
(3 phials)

ORDERS THROUGH WHOLESALERS ONLY

**Now, as then  
COURTESY  
does count!**



**CLAUDE DUVAL**, the courteous highwayman, dancing the 'corranto' on Hampstead Heath with one of his unwilling benefactors. Ways of doing business change but we can promise there will be no 'hold up' in our service.

### **A NEW SUNDRIES SERVICE PLUS**

As specialist distributors we are able to offer you a unique selection of nationally advertised sundries as well as special items from both home and overseas.

In addition we keep a comprehensive stock of sundries and counter lines which are in popular demand.

In Kent our representatives are at your service and will be pleased to show you samples from our stock range.

**SPRING CATALOGUE.** Our new catalogue will be available after the Budget. Please telephone or send us a postcard when we will be pleased to reserve a copy for you.

**SUNDRIES — DRESSINGS — COUNTER LINES  
BOTTLES — FANCY GOODS — TOILETS . . .**

*Claude Duval*  
LIMITED

BOLTS HILL, CHARTHAM, CANTERBURY, KENT

Tel: Chatham 391 (3 lines)

Grams: Duval, Chatham



## AUTOSET MOVIES easy as taking a snap!



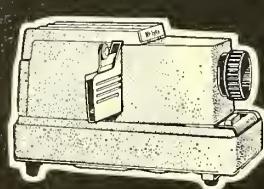
## AUTOSET MOVIES easy as taking a snap!



## EASY MOVIES



## AUTOSET TURRET



\* HI-LYTE 707



\* AUTOSET

# BELL & HOWELL

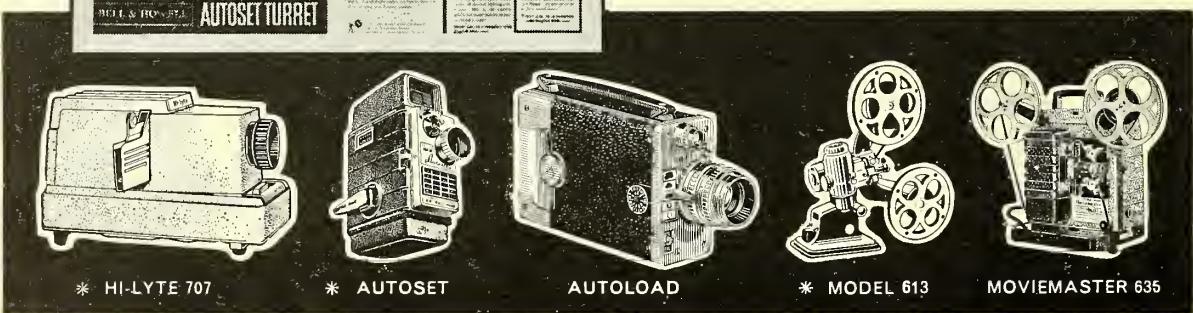
THE QUALITY NAME IN CINE EQUIPMENT

The full Bell & Howell range in your shop means extra sales—extra profits. Why not become a Bell & Howell Accredited Stockist—it's good prestige and it's good sense!



Write to:

RANK PRECISION INDUSTRIES LTD.  
Cine & Photographic Division  
Mitcheldean, Gloucestershire



\* MODEL 613

MOVIEMASTER 635

Your last chance to cash in on the

# MOTHAK BONUS OFFER

The BONUS OFFER ends on April 1st –  
if you haven't placed your order  
already – DO IT NOW

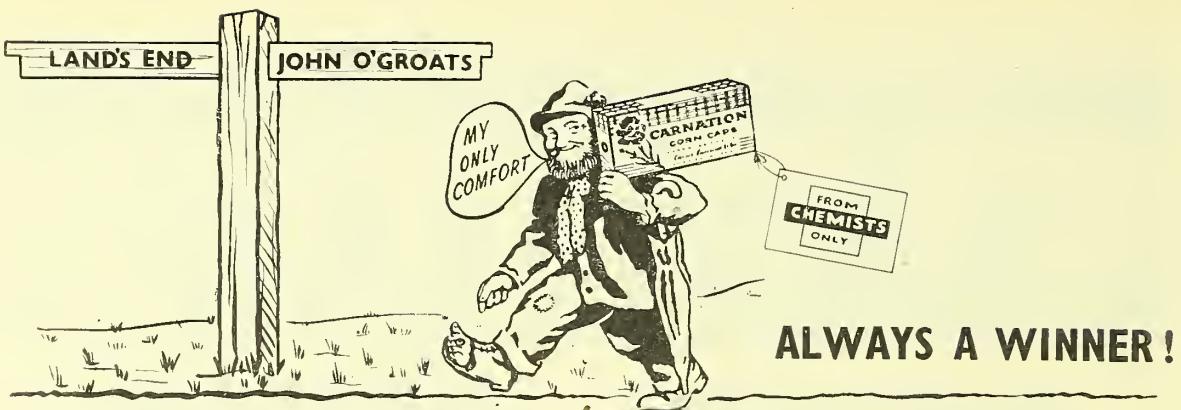
MOTHAKS	-	-	-	-	-	1/-d
MOTHAK FLY SPRAY	-	-	-	-	-	3/9d
★ MOTHAK FLY SPRAY	-	-	-	-	-	6/3d
Super Economy Size						
★ MOTHAK MOTH PROOFER	-	-	-	-	-	3/9d
MOTHAK POWDER	-	-	-	-	-	1/4d
PARADOR AIR FRESHENER	-	-	-	-	-	1/3d
PARADOR Aerosol	-	-	-	-	-	3/9d
★ PARADOR Concentrated FLORAL						
Disinfectant	-	-	-	-	-	2/6d
FLUSH Automatic W.C. Deodoriser	-	-	-	-	-	1/9d
BINZAIR Dustbin Deodoriser	-	-	-	-	-	1/9d
★ NEW PRODUCTS						

Advertising makes  
SALES . . .

continuous  
advertising in all  
NATIONAL DAILIES  
NATIONAL SUNDAYS  
LEADING MAGAZINES &  
LEADING PROVINCIALS

**Lowest Prices . . . Highest Profits**

THOMPSON & CAPPER LIMITED : LIVERPOOL 24



Throughout Great Britain, from John O'Groats to Land's End, there will again be regular easy sales of CARNATION CORN CAPS—the most popular corn remover. National Advertising and recommendation keep these selling readily. All you have to do is KEEP CARNATIONS ON YOUR COUNTER—THEY'RE A TOP-LINE BEST SELLER.

**Retail: 1/3 Pkt. (inc. Tax) Trade: 8/3 Doz. + 2/1 Tax (Generous bonus on quantities)**

**ALSO RECOMMENDED: CARNATION CALLOUS CAPS—8/3 + 2/1 Tax**

A PRODUCT OF *Cuxson, Gerrard & Co. Ltd.* OLDBURY, BIRMINGHAM  
Telephone BROadwell 1355 (5 lines)

**NATUR-L-MENTHOL**  
**ESKIMO BRAND B.P., U.S.P.**  
made of  
**PEPPERMINT - OIL**  
Favourable prices — write for samples  
REPRESENTATIVES WANTED



**Konzentra HUBERT TIMM HAMBURG 39**

**BURROOUGH'S**  
**D. S. V. R. DOUBLY RECTIFIED**  
JAMES BURROOUGH LTD.,  
1 CALE DISTILLERY LONDON S.E. II

**CHEMIST'S DICTIONARY OF MEDICAL TERMS 7th Edition**  
Prepared primarily for pharmacists, the Dictionary is indispensable also for pharmaceutical manufacturers, advertising agents concerned with the marketing of medicinal products and indeed all who have to find their way around among the multifarious medicinal compounds of modern times.  
Order direct from: **THE CHEMIST & DRUGGIST**  
28 ESSEX STREET, STRAND, LONDON, W.C.2  
PRICE 17/6. Postage 9d.

*Specialists in*  
*Vegetable Raw Materials*

We stock 600 lines as diverse as: AGAR AGAR · CAMPHOR · STYRAX  
PEPPERMINT · QUILLAYA · SPERMACETI · TRAGACANTH · WITCH HAZEL

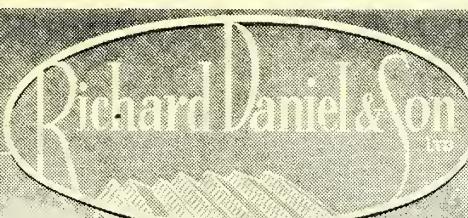
**BROME & SCHIMMER LTD**  
7 LEATHER MARKET, LONDON, S.E.1

Telephone: HOP 0825

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**PROPRIETARIES**  
**SUNDRIES DRUGS**  
**TABLETS & PILLS**

*Manufacturing  
Chemists*

Head Office & Works :  
Mansfield Road, Derby. Tel: 40671 (10 lines) Branch Warehouse : Grosvenor St., Ashton-under-Lyne. Tel: 5161 (9 lines)

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**You owe it to yourself** to ensure that the package you sell has consumer acceptance, builds up consumer goodwill, and reflects the integrity of your organisation.

Let our experience in the manufacture and packing of

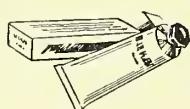
**TABLETS**



**POWDERS**



**LIQUIDS**



**OINTMENTS**

assist you to achieve this object and increase your sales this year and every year.

You're in safe hands when



do the job

**PHARMACAL SUPPLIES LTD.**

Pharmaceutical Manufacturers

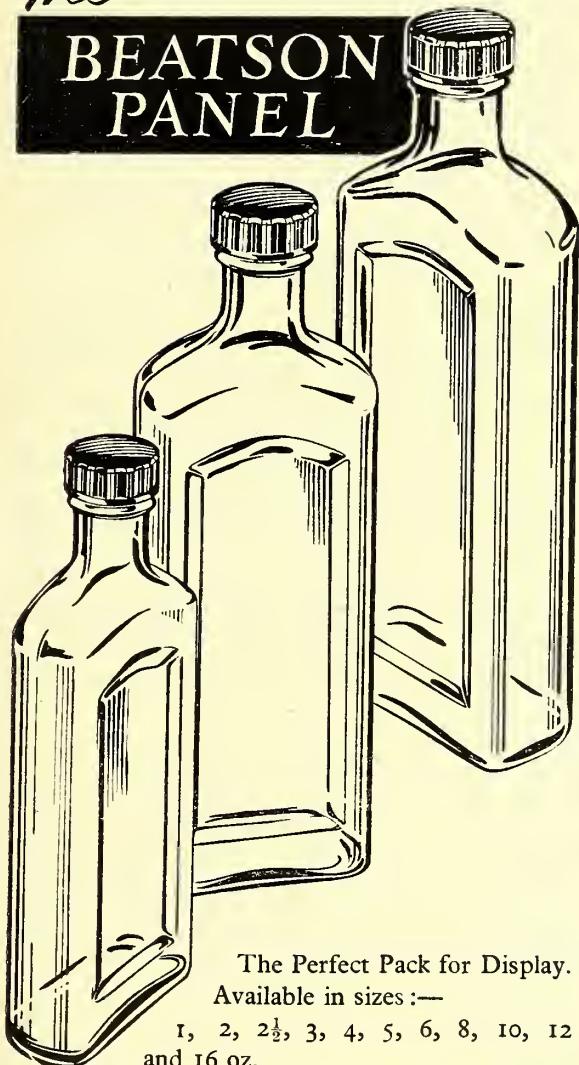
GREEN LANE, HOUNSLOW, Middlesex

Telephone: HOUNslow 5122

Now available in  
**AMBER**  
1, 2, 3, 4, 6, 8 and 16 oz.

The

## BEATSON PANEL



The Perfect Pack for Display.  
Available in sizes :—

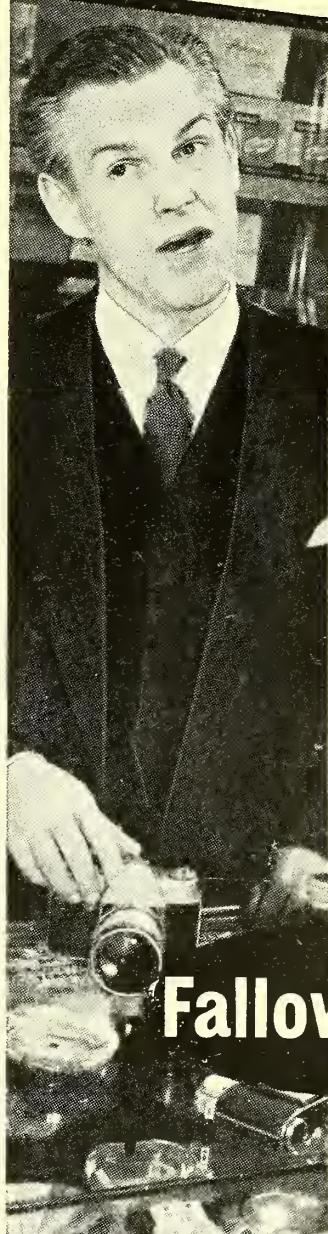
1, 2, 2½, 3, 4, 5, 6, 8, 10, 12  
and 16 oz.

Caps : Black, Red or White Plastic  
or White Enamelled Tinplate.

**BEATSON, CLARK & CO. LTD.**  
*GLASS BOTTLE MANUFACTURERS*  
ROOTHERHAM *Established 1751* YORKSHIRE

BC99(R)

**"I'm not lazy—but I  
hate working for  
nothing!"**



Have you spent your  
whole day *selling*?  
Impossible, you say.  
What about all the  
paper-work . . . what  
about the photographic  
lines you could sell  
but haven't got time  
to hunt down?  
Well now, you  
obviously aren't using  
Fallowfields. They'll  
give you quick delivery  
of almost anything  
photographic, and they  
are so sensible about  
prices.

Retail price, discount  
and purchase tax are  
all there on the  
delivery note.

Fallowfields give you  
a head start on the  
other fellow!

**Fallowfield**  
LTD

74 NEWMAN STREET,  
LONDON, W.I.  
LAngham 9521

**DAY & NIGHT  
PHOTOGRAPHIC  
WHOLESALE**

TO: JONATHAN FALLOWFIELD LTD., Dept. CD 15  
74 NEWMAN STREET, LONDON, W.I.  
PLEASE PUT ME ON YOUR MAILING LIST

Name \_\_\_\_\_

Address \_\_\_\_\_

(CAPITALS PLEASE)

# For your Baby Counter . . .

## PYNTA Baby Pants . . . ►

Designed and cut to ensure perfect comfort. Covered with fine quality rayon mesh for coolness. Lined with soft lanolin-impregnated nylon finish plastic.

23/6 doz. Retail 2/11 each

## ◀ GEORGI-PORGI Baby Pants (Uncovered)

Designed and cut to ensure perfect comfort. Made with a very soft, scented plastic impregnated with lanolin.

12/3 doz. Retail 1/6 each



"GEORGTON" PRODUCTS



Order from your usual wholesaler

**GEORGE HIGTON LTD.**

7 WINDMILL ROW, LONDON, S.E.11

Tel: REL 3482

# RIDDOVYDRIN ELIXIR

A NEW PREPARATION SPECIALLY COMPOUNDED TO  
MEET WITH THE NECESSITY OF A POTENT SYRUP TO  
RELIEVE ALL FORMS OF COUGHS ASSOCIATED WITH:—

**ASTHMA, BRONCHITIS and INFLUENZA**  
CONTAINING VITAMIN C

ONE SIZE ONLY — 3oz. CARTONED PANEL

UNSUITABLE FOR CHILDREN UNDER 14

# RIDDELL PRODUCTS LIMITED

RIDDELL HOUSE · 10-14 DUNBRIDGE STREET · LONDON, E.2  
AND AT MANCHESTER

PHONE: SHO 7254-5-6

**After the  
sun of summer  
...the winds  
of winter**



*And again, the need for Christy's Emulsion. Protective, soothing and healing on sore or exposed skins, Christy's Emulsion is widely known and trusted. As summer sunburn is followed by winter chapping and rawness, the demand for Christy's Emulsion continues to expand. To help meet this demand, see you have ample stocks of Christy's Emulsion.*

*Small bottle or tube retails at 2/3, large bottle at 3/10.*

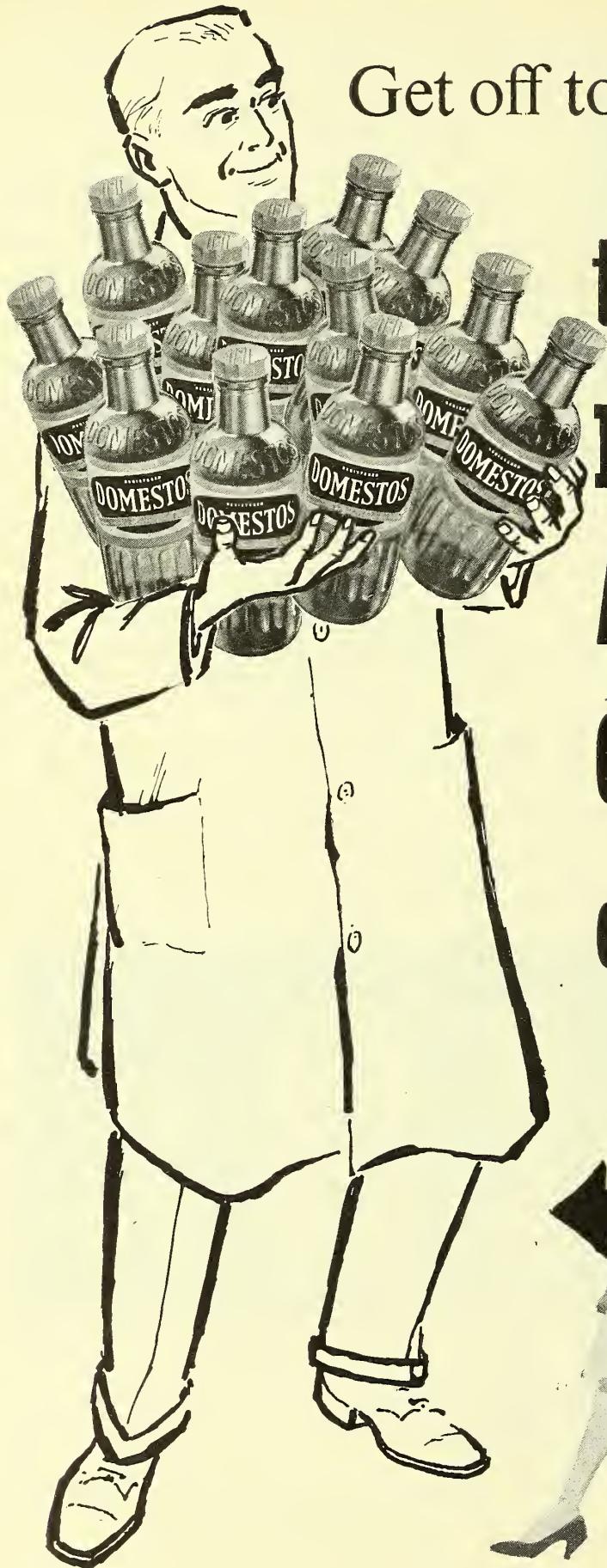
**THE 1960  
ADVERTISING  
CAMPAIGN**

for Christy's Emulsion.  
In gardening and farming  
press, and in Advertising  
Magazine programmes on  
Granada, Tyne-Tees, Anglia  
and Scottish Television.



# Christy's Emulsion

**THOS. CHRISTY & Co. Limited, 152, NORTH LANE, ALDERSHOT, HANTS.**



Get off to a good start with  
the greatest  
**DOMESTOS**  
Advertising  
Campaign ever..  
on April 11th!



## Make sure of your stocks of **DOMESTOS** now!

...to meet the increased demand... and display the colourful and compelling point-of-sale material—window stickers, counter showcards and shelf strips—which will clinch the increasing sales in your shop.



Here are 3 good reasons why you will sell even more  
**DOMESTOS**

- Domestos already outsells every other lavatory cleanser.
- The new campaign will push sales even higher.
- In almost every home throughout the country the Domestos story will be seen and heard time and time again,

...in frequent 30-second spots on ALL TV stations and in cinemas  
...in heavily repeated advertising in magazines and in over 180 local newspapers

**IT WILL PAY YOU TO INCREASE YOUR ORDER FOR DOMESTOS**

DOMESTOS LIMITED, COLLEGE WORKS, ALBION ROW, NEWCASTLE UPON TYNE, 6



# Best Buy



## FOR THE USER

because they mean  
trouble-free, low-cost  
photography

## FOR YOU

because they mean  
satisfied customers

*Attractively designed  
and beautifully finished*

**Lens:** Ferrania f7.7 65 mm. Acromatic with precision focusing.

**Shutter speeds:** 1/100, 1/50 and B. Flash synchronised.

**Two stop settings.**

**Brilliant optical viewfinder.**

**Double exposure prevention device, with red marker.**

**Accessory shoe for flashgun, etc.**

**Standard tripod socket.**

**Removable shoulder strap.**

**Finish:** imitation Morocco leather, and chrome-plated, polished  
or enamelled diecast light alloy body.

**IBIS 44** takes 12 pictures (4x4 cm.) on 127 roll film £4.14.10

**IBIS 34** takes 16 pictures (3x4 cm.) on 127 roll film £4. 7. 2

**Ever-ready case for either camera 17/7**

**Sole Wholesale Distributors:**

**NEVILLE BROWN  
& COMPANY LIMITED**

These two precision-built miniature cameras are  
remarkably inexpensive, but their technical fea-  
tures and performance—under normal lighting  
conditions—are comparable with more expensive  
models. They will produce excellent colour  
pictures by daylight or by using synchronised flash.

# ferrania

## I B I S

### C A M E R A S

**77 NEWMAN ST., LONDON, W.1**

**Trade Counter:**

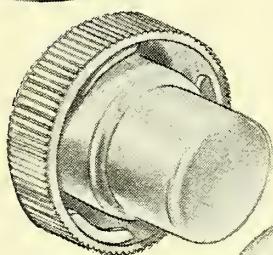
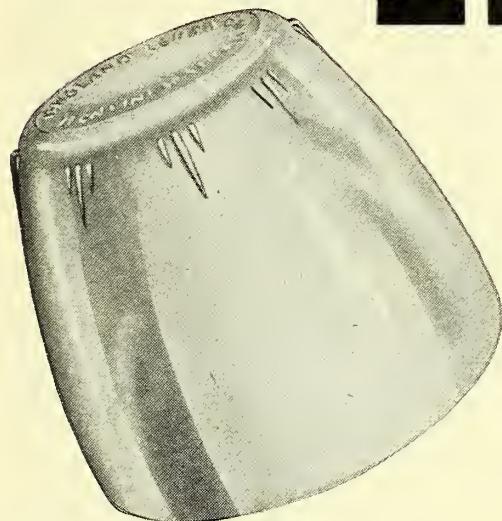
**3 BERNERS MEWS, W.1. (rear of Building)**  
**Tel. LAN. 7161 (10 lines)**



# ISOVAC

## GOLD SEAL

### VACUUM FLASK



Now in 3 sizes

MINOR

(8 fl. ozs.)

STANDARD

(16 fl. ozs.)

FAMILY

(36 fl. ozs.)

- New Polythene stopper with quick-lock fitting, leak-proof on a quarter turn. Washable and odourless.
- No threads to "gum up"
- Drip-free all round pouring lip.
- Centre-sealed tip, permanently protected.
- Glass lining supported by polythene shock pad.
- Almost unbreakable plastic cup.
- Separately packed in attractive cartons.

All the top-selling features of the 'Standard' ISOVAC Gold Seal Vacuum Flask are now incorporated in the new 'Minor' and 'Family' Flasks. 'LUSTREEN' finished in Blue, Green or Lilac, and attractively boxed for display purposes. When ordering please quote these reference numbers:

'Minor' (880).....6/6

'Standard' (881)....7/4

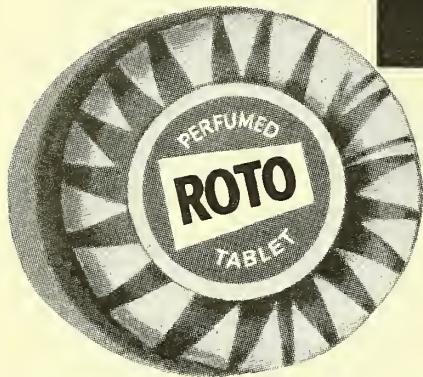
'Family' (883)....12/6

*Retail prices (inc. P.T.)*

MADE IN ENGLAND



# big news FROM ROTOsan



ROTOPAN—a new W.C. Deodorant Fitting which simply 'clips-on' by an anodised wire. Retailing at

1/-  
complete

ROTO—a new Perfumed (All Purpose) Tablet in three perfumes, Lavender, Bouquet and Rose. Retailing at—

9d.  
each

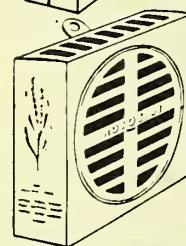


Advertising for these products will appear in the National Press and the leading Women's Journals.



ROTOFRESH—the complete deodorant and cleaner for the toilet—now with a wire fitting for extra security in addition to rubber grip. Retailing at

1/8  
complete



ROTOsan—the popular flower-fresh Air Conditioner in Rose, Lavender and Sweet Pea. Retailing at

1/3  
each

## SPECIAL BONUS OFFER

BONUS 'A'

BONUS 'B'

BONUS 'C'

7½%

EXTRA DISCOUNT

On orders for 12 dozen of any assortment listed below.

5%

EXTRA DISCOUNT

On orders for 6 dozen of any assortment listed below.

2½%

EXTRA DISCOUNT

On orders for 3 dozen of any assortment listed below.

TRADE PRICE LIST

Retail Trade P.T.  
each (doz.) (doz.) Pack ORDER

ROTO All purpose block ... ... 9d. 6/- — 3 Doz. ....

ROTOPAN W.C. Fitting (Wire) 1/- 8/- — 2 Doz. ....

ROTOFRESH Complete W.C.

Pan Fitting 1/8 13/- 4d. 1 Doz. ....

ROTOFRESH Refill ... ... 1/3 10/- — 1 Doz. ....

ROTOSAN—DISCS ... ... 1/3 10/- — 1 Doz. ....

ROTOSAN—JUNIORS ... ... 2/3 17/4 1/- 1 Doz. ....

ROTOSAN—AUTOMATICS ... 5/6 41/6 3/2 1 Doz. ....

ROTOSAN—CRYSTALS

(Superfume) Bags 2/- 16/- — 1 Doz. ....

ROTOSAN—CHANNEL

BLOCKS (3 per packet) 1/6 12/- — 1 Doz. ....

ROTOCUBES Large... ... 1/3 10/- — 1 Doz. ....

TOTAL ....

Indicate Bonus A ..... B ..... C .....

FORM

(Complete and post in open envelope 2d. stamp)

Name .....

Address .....

Wholesaler's Name .....

Address .....

OR DIRECT

BONUS OFFER EXPIRES APRIL 11th

"CULLINGFORD OF CHELSEA," Sales Office : WEBBER ROAD, KIRKBY, LIVERPOOL

**Extensive  
National  
Advertising  
in the Press  
and Women's  
Magazines**

*plus*

**T.V.**

**will create  
GREATER sales  
for you**

*\*Order NOW to ensure  
ample supplies of*  
**MODERN**  
*ANTI-COLIC TEATS*

**THE CANNON RUBBER MANUFACTURERS LTD.**  
**ASHLEY ROAD, TOTTENHAM, LONDON, N.17**



the skin is  
contented baby -  
happy mother

— thanks to 'MODERN' efficient feeding!  
Triple Perforation and Spiral Reinforcement  
give an even, air-free flow.  
The high quality, moulded rubber withstands  
repeated boiling and guarantees long life.  
Fewer 'MODERN' Teats are needed from birth  
to weaning, reducing 'breaking in' troubles.  
A special tip is provided for easy, hygienic removal and  
correct feeding rate. YOUR Baby Deserves the Best —

BUY

**MODERN ANTI-COLIC TEATS**

for nearest to natural feeding  
FROM ALL CHEMISTS AND CLINICS 7½d.

Write TODAY for YOUR Baby's Free,  
Post-Free 'MODERN' Baby Diary.

Name.....  
Address.....

CANNON RUBBER MANUFACTURERS LTD.,  
Dept. ASHLEY RD, TOTTENHAM, LONDON, N.17.

Don't miss out—make certain you  
have sufficient stock to meet the demand!

Spirally re-inforced, triple perforated,  
moulded from high quality rubber,  
'MODERN' Anti-colic Teats, individually  
packed—are available in attractive  
counter display units—and retail  
at ONLY 7½d.

## ONLY GUAVIN

CONTAINS SUCH A  
RICH NATURAL STORE  
OF HEALTH-GIVING VITAMIN C  
AND  
ENERGY-GIVING FRUIT SUGARS



Guavin is 100% pure fruit juice; a delicious blend of the juices of South African guavas and sweet, black grapes. It contains more natural Vitamin C than blackcurrant syrups; more natural glucose than energy drinks. It is sold exclusively through Chemists and Health Food Stores and at one price only—3/-.

To you, Guavin offers exclusively, the advantage of a stable price, steady, repeating profits, much goodwill—and a continuously expanding market.

It will pay you to stock Guavin. And to actively recommend it.

# GUAVIN

(SAY GWAR-VIN)

the double goodness drink

PASCALL-KNIGHT LTD. (Est. 1931) CROYDON, SURREY

3/-

## YOU CAN RECOMMEND



**BECAUSE** Lastonet service is efficient and trouble-free; and offers delivery in **FIVE** days.

Lastonet stockings wear well and are guaranteed for six months.

When a better surgical stocking is made—Lastonet will make it.

### SPECIAL NOTICE

For your convenience we have now introduced, with a 24 hour service, a standard Elastic Yarn stocking (LASTOYARN) for supply under N.H.S.

We suggest you order from us because:—

1. There is no stock for you to keep—we do this for you.
2. Lastoyarn stockings are sent BY RETURN OF POST.
3. You save both time and trouble by obtaining all your stockings from one manufacturer.
4. Your customer will like the fully fashioned style and the nylon Helanca tops and heels (for comfort and long wear).

Please write to us for display materials—measurement forms (in an attractive holder) and any further information you require.

**LASTONET PRODUCTS LTD**  
**CARN BREA, CORNWALL**



**"SKYLON" POLYTHENE  
HOT WATER BOTTLES**

A P.A.T.A. LINE

**FIBRENYL LTD**  
157 DUKES ROAD  
WESTERN AVENUE, LONDON, W.3

ACORN 5073-4

**Illustration above shows the range of colours in which the new "SKYLON" polythene hot water bottles are being made. Light in weight and complete with Polythene cap and rubber seal.**



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Packed in polythene bags with attractive "Sales-Appeal" design showing, in silhouette, a Teenager in shortie and alternatively, Father in his nightshirt and cap, they are, with their bright colours a sure selling line for young and old. Ask your Wholesaler to show you the bottles in their printed wrapper and stock up now—you know our climate!

# Display

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On every I.T.V. Station—lively, imaginative 30 and 15 second commercials sell FORMULA 21. Maximum peak-time impact—over and over again! Tie in your shop display for bigger business!

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**TWO TOP SELLERS**

**New!**

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Only 8/6 (retail)

**Popular**

21-day tin, 21/- (retail)

**FORMULA 21 sells faster than any other slimming aid**



MANUFACTURING  
PACKAGING

**The COX service  
covers the world**



**ARTHUR H. COX & CO. LTD., BRIGHTON, ENGLAND**

# SPECIAL SILCOT PACKAGE OFFER...

15% BONUS FOR YOU  
WITH THIS ORDER

With every 3 dozen packets size 1 - and 2 dozen packets size 2  
YOU RECEIVE 6 FREE PACKETS SILCOT SIZE 1

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You can order any number of packages during bonus month — ORDER NOW — OFFER CLOSES MARCH 31st.

**ORDER NOW**  
OFFER CLOSES MARCH 31<sup>ST</sup>

PORTLAND MILL . ASHTON - UNDER - LYNE . LANCS



MACDONALD & SON LIMITED

**YOUR PROFIT  
YOUR FULL MARGIN  
PLUS 15/-  
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# Silcot advertising to over 7,000,000 women — will send your sales soaring!

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soft-as-silk  
SANTOWELS

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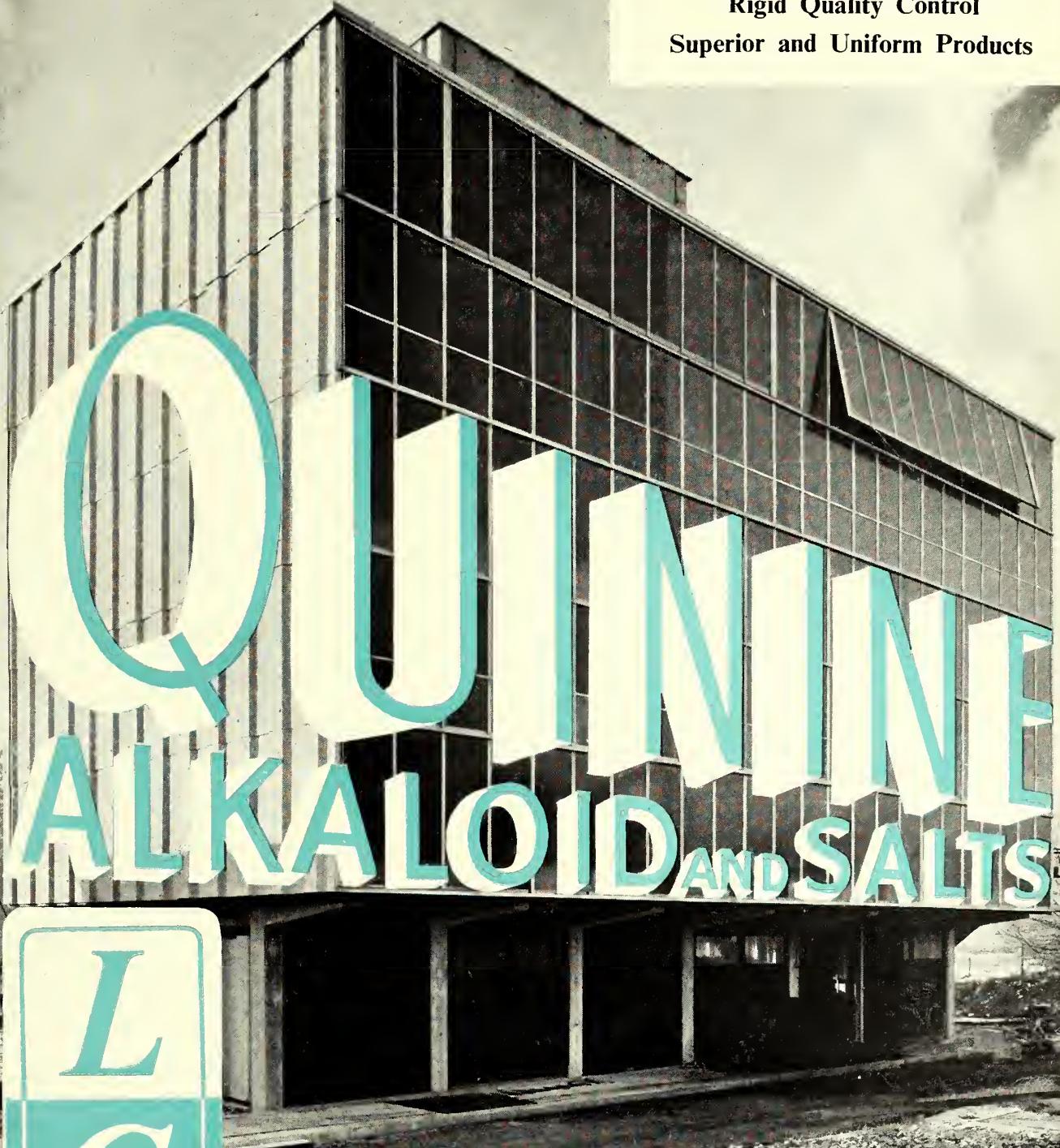
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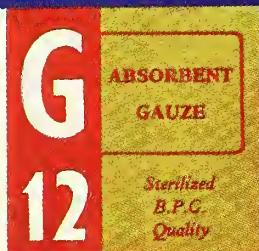
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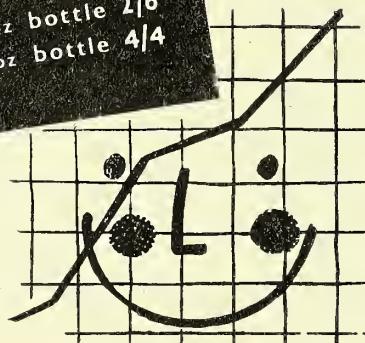
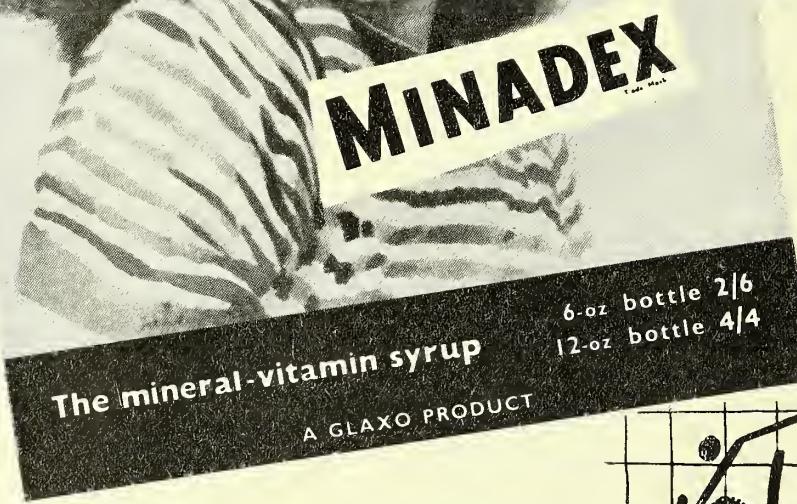


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outlook after  
illness... for an  
even brighter  
complexion  
on your  
sales picture**



This is your private view of the latest in the highly successful series of colourful showcards that have helped to make Minadex the top selling tonic.

MINADEX has no BP or BNF equivalent

MINADEX is still at its pre-war price

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*Composed of vitamins A and D, iron, copper and glycerophosphates of calcium, potassium and manganese*

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Minadex is available in most countries

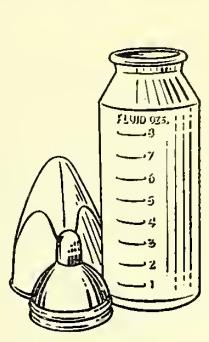
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THE ORIGINAL  
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By far the best value for this type of product

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**THE CHEMIST  
AND DRUGGIST**

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

*Official organ of the Pharmaceutical Society of Ireland  
and the Pharmaceutical Society of Northern Ireland*

Volume 173

March 26, 1960

No. 4180

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**AFFORDS CONSTANTLY INCREASING SALES!**



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- \* Endocil yields  $33\frac{1}{3}\%$  profit plus an extra  $12\frac{1}{2}\%$  for display on one dozen or more tubes.
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# The CHEMIST AND DRUGGIST

Volume 173

MARCH 26, 1960

No. 4180

## Resale Price Maintenance

### A "CONFIDENTIAL" FACT-FINDING INQUIRY

A CONFIDENTIAL fact-finding inquiry into the extent and effects of the practice of individual resale price maintenance is to be undertaken, it was announced by Mr. R. Maudling (President, Board of Trade) during a reply to a Parliamentary question by Mr. W. Clark on March 17 (see p. 334).

The Board of Trade is to approach some representatives of commerce, industry, consumer organisations, trade unions and individuals for the purpose. Anyone wishing to furnish such factual information should write to the Board of Trade, Horse Guards Avenue, London, S.W.1. The Minister said the Board had received a large number of letters on the subject of price maintenance, some in support of the present state of affairs and others against it and calling for the repeal of Section 25 of the Restrictive Practices Act, 1956 (which provides for individual enforcement by legal proceedings of conditions as to resale price). Most of the letters had, however, been concerned with the broad policy of resale price maintenance and not with the factual matters with which the new inquiry was to be concerned. The Board of Trade announced that all representations and information already received were being taken into account. It was not possible to state how long the inquiry would take. The last time the subject was similarly examined was by the Lloyd Jacob Committee, which reported during 1949. Commenting on prices Mr. R. S. W. Clarke (chairman of the Imperial Tobacco Co., Ltd.) on March 22, said "We are convinced that on balance the advantages of resale price maintenance in the tobacco trade outweigh any disadvantages there may be. It would be unfortunate if it were decided to change the law now." He also mentioned that those who depended largely upon tobacco sales felt they needed to be protected against those who might use cigarettes as "loss leaders" to encourage sales of other goods.

### Mayer Fellowships

TEN OR TWELVE AWARDS THIS YEAR

THE Food and Agriculture Organisation of the United Nations is to offer ten or twelve André Mayer Fellowships this year. The awards are to be made under the following two groups: Research (for unusually promising persons with research experience behind them who would offer a guarantee for the carrying out of independent research work); and research training (for younger and promising individuals who

have demonstrated an inclination towards and an aptitude for research work). Due consideration is to be given to geographical distribution, to ensure that a proportion of the awards is given to candidates from countries where research facilities are not highly developed and the need for trained research workers is great. The subjects presented must be in relation to F.A.O.'s activities which comprise land and water development, plant production and protection, animal production and health, rural institutions and services, fisheries, forestry and forest products, nutrition (non-medical), atomic energy in food and agriculture, agricultural economics (commodities, statistics, economic analysis). Further information is available from the Secretariat of the F.A.O. National Committee for the United Kingdom, Ministry of Agriculture, Fisheries and Food, Whitehall Place (East Block), London, S.W.1.

### Plastics Record

#### OUTPUT AND EXPORTS ADVANCE

NEW record levels for both output and exports were reached by the British plastics industry in 1959. Exact details of output are not yet known but a figure approaching 500,000 tons is forecast by the British Plastics Federation. That represents a rise of about 80,000 tons on 1958, when output was 415,600 tons, and is the biggest for some years (production increased by 90,000 tons to 274,000 tons in 1954). Production has also more than trebled in ten years (1950, 155,000 tons). Exports of raw materials were valued at nearly £40 millions, an increase of over £7.8 millions on 1958. The volume, over 157,000 tons (compared with 123,000 tons in 1958), was also a record. Both value and volume are about double the rates of six years ago. Biggest buyer in 1959, as for several years past, was Australia (£4.2 millions) and exports to Hong Kong rose from below £1 million to over £2.6 millions. Other substantial markets were:—Sweden, over £2 millions; the Netherlands and France, both over £1.8 millions; South Africa, nearly £1.6 millions; Belgium, Italy, New Zealand and Denmark, between £1.4 and £1.5 millions; Western Germany, £1.3 millions;

Norway, nearly £1.3 millions and India, over £1.1 millions.

### Packaging for Pharmacy

#### A LONDON DISPLAY

RECENT trends in the packaging of pharmaceuticals—by paper and board products, glass, metal and plastic containers, etc.—will be represented in the Packaging Centre's pharmaceutical packaging display to be held at 50 Poland Street, London, W.1, from April 5 to May 6 (see *C. & D.*, February 20, p. 191). Exhibiting companies include: Ets. Ch. Nicolle; Lustroid, Ltd.; The Metal Box Co., Ltd.; Paper Goods Manufacturing Co., Ltd.; John Dale, Ltd.; Robinson & Sons, Ltd.; Spicers, Ltd.; Johnsen & Jorgensen Flint Glass, Ltd.; Cascelloid, Ltd.; Venesta, Ltd.; and THE CHEMIST AND DRUGGIST. Two forums on pharmaceutical packaging developments and problems are being held at the Centre on April 11 and April 21, both at 5.30 p.m. The discussions will provide an opportunity for an exchange of ideas and will be open to all interested in the subject.

### Shortage of Pharmacists

#### IMPOSSIBLE TO TRAIN STUDENTS

THE shortage of pharmacists in the area was referred to by speakers at a meeting of the East Anglian Regional Hospital Board at Peterborough on March 16. It was stated that it was even impossible to train student pharmacists in East Anglia because of staff shortages. It was pointed out that although new salary scales had been agreed they were still about £200 a year less than commercial salaries. There is to be a reassessment of manpower in the various pharmacies of the local hospital management committees after which the board are to consider the matter further.



BEFORE THE MEETING: Dr. G. H. Macmoran (secretary of the Scottish Department of the Pharmaceutical Society) with Professor J. P. Todd (professor of pharmacy, Royal College of Science and Technology, Glasgow) and Mr. Andrew Officer (chairman) who presided at a meeting of the Department in Edinburgh on March 18, at which Professor Todd spoke on "Experiences with Pyrogens."

## Agricultural Chemicals

### EXTENSION OF REGULATIONS

THE Agriculture (Poisonous Substances) (Extension) Order, 1960 (H.M. Stationery Office, price threepence), which came into operation on March 18, consolidates all the previous orders made under section 9 (2) of the Agriculture (Poisonous Substances) Act, 1952. It also extends the list of substances to include "all substances the molecular structure of which consists of a bridged six-membered ring with substituents in the ring." That definition includes endrin, which was the subject of a previous order. The other compounds in the list are organo-mercury compounds; arsenical compounds; fluoroacetic acid and its derivatives.

## Warble Fly

### THE SEASON FOR DERRIS DRESSINGS

THE Ministry of Agriculture, Fisheries and Food has issued to stock owners a reminder of their legal responsibilities during the warble fly dressing season, which began on March 15. It is pointed out that the specified derris dressing has to be applied to the back of infested cattle at monthly intervals until maggots cease to appear, or until June 30, whichever is the earlier. The use of systemic insecticides in the autumn of 1959 may not have been fully effective and does not absolve stock owners from their obligations under the Order.

## OVERSEAS NEWS

### AUSTRALIA

#### No Sale of Serum Laboratories

THE Australian Federal Government has rejected overtures for the purchase of the Government-owned Commonwealth Serum Laboratories, in Melbourne, by private firms, according to a Canberra announcement by the Prime Minister (Mr. Menzies). Several major American and British companies had inquired about the possible sale of the huge laboratories to private enterprise, but hospital organisations and unions vigorously opposed any move to sell them.

### SOUTH AFRICA

#### A New Pharmaceutical Factory

NEW laboratories for Parke, Davis & Co., situated on the main road from Jan Smuts Airport to the City of Johannesburg, were opened by Professor S. F. Oosthuizen (president, South

African Medical and Dental Council) recently. The premises have a floor space of 40,000 sq. ft., and comprise a double-story administration and amenities block with single-story laboratory behind.

### Decimal Notes and Coins

THE Decimalisation Board has announced that the following Rand bank notes and cent coins are to be issued on or after February 14, 1961 (the equivalents in sterling are given in brackets):—Bank notes: R1 (10s.), R2 (£1), R10 (£5) and R20 (£10); gold coins: R1 (10s.) and R2 (£1); silver coins: 50c. (5s.), 20c. (2s.), 10c. (1s.), 5c. (6d.) and 2½c. (3d.); bronze coins: 1c. and ½c. The board points out that gold coins are being struck in limited quantities as parts of sets which are for sale to numismatists and collectors throughout the world. No 25c. coin equivalent to 2s. 6d. will be struck.

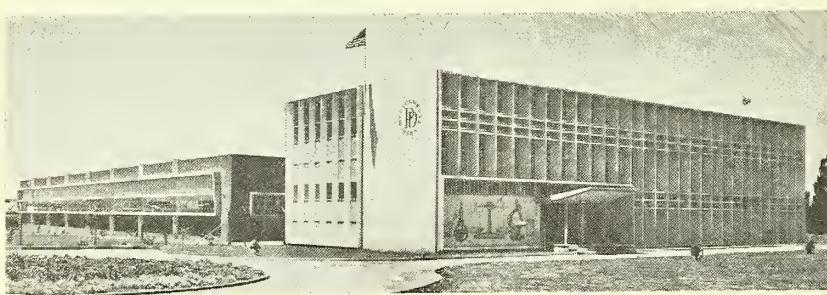
### New Snake Sera

NEW sera against bites by mambas and gaboon vipers—among the deadliest snakes in Africa—are being marketed for the first time this year. They have been developed by the owner of Durban Snake Park (Mr. D. C. Fitzsimons) and his associates working in laboratories near Stellenbosch in the Cape. The new sera will mean that those who up to now have had only a slender hope of surviving mamba and gaboon viper poisons, will stand a 75 per cent. chance of living, according to Mr. Fitzsimons. He added that the gaboon serum had proved highly successful in experiments, but it was expected to take several months to obtain higher protective qualities in the mamba serum. In addition to the mamba and gaboon viper sera, to be used for specialised treatment, a new all-purpose tropical serum has also been tested, said Mr. Fitzsimons. That would be effective against almost any snake bite in Africa.

### SWEDEN

#### Pharmacology Congress in 1961

THE organisation committee for the first international pharmacology congress, to be held in Stockholm in the summer of 1961, met in Stockholm recently. The conference, which is a sub-division of the International Union of Physiological Sciences, is expected to rally some 1,500 delegates. Its main theme will be "Mode of Action of Drugs." Hosts of the congress will be the Carolinian Institute's pharmacology department.



The new pharmaceutical factory of Parke, Davis & Co. at Johannesburg, South Africa.

## IRISH NEWS

### THE REPUBLIC

#### Cork's Dinner - Dance

##### "MOST ENJOYABLE"

"A MOST enjoyable function" was the unanimous verdict of the 180 guests who attended the third annual dinner-dance of the Cork Chemists' Social Committee held in Cork on February 24. Guests from many provincial centres attended. Numerous spot-prizes and novelties added to the gaiety of the function. Among those attending were the president of the Pharmaceutical Society of Ireland and Mrs. Corrigan; the registrar and Mrs. Coleman; the president of the Irish Drug Association and Mrs. McAuliffe, and the I.D.A. secretary (Mr. Brendan Smith). Mr. J. J. Joyce, Mallow (chairman), presided at the dinner.

## An Illegal Sale

### DECISION AFTER THREE ADJOURNMENTS

ON it being stated by the defending solicitor that the business had now been finally sold, Dublin district court on March 10 applied the Probation Act in the case against Madeleine Toomey, formerly proprietress of the Belvedere Pharmacy, Great Denmark Street, on her agreeing to pay a fine of £3, £5 17s. 6d. expenses and £12 12s. costs. Earlier the defendant had pleaded guilty to having sold a quantity of Alophen pills in the absence of a duly qualified pharmaceutical chemist. The justice remarked that he was satisfied the defendant could not offend again against the Act. The case had been adjourned on three previous occasions to enable the sale of the pharmacy to take place.

### THE NORTH

#### Tranquilliser Drugs

##### NEW LEGISLATION LIKELY

THE Northern Ireland Poisons Board is likely to recommend restrictions on the public sale of certain tranquillising drugs. That was disclosed in a letter from the Northern Ireland Ministry of Home Affairs to Belfast Corporation's health committee. The letter was in reply to one from the committee expressing concern that certain of those drugs could be obtained without a doctor's prescription and that there was a danger of young people becoming addicted to them. The Ministry stated that the Imperial Government was at present considering recommendations from the Poisons Board and it was probable that in the near future the poisons law of Great Britain would be amended to prohibit the public sale of certain tranquillising drugs except by doctor's prescription. The letter added that it was likely that the Northern Ireland Poisons Board, which had had the matter under consideration for some time, would make recommendations for similar restrictions and if that was the case amending regulations would be introduced so soon as possible.

## NEWS IN BRIEF

SALES by the National Co-operative Chemists, Ltd., rose by 14·9 per cent. in 1959 compared with 1958, to a total of £1,162,500.

ACCORDING to the Colonial Office there are 1,004 Colonial students studying medicine and pharmacy in the United Kingdom.

"THE Health Services in the U.S.S.R." (H.M. Stationery Office, price 3s. 6d.), is the title of the third in a series of Public Health Papers issued by the World Health Organisation.

EACH week 10,000 catheters, and an unstated number of disposable plastic syringes, are being sterilised by gamma radiation at the United Kingdom Atomic Energy Authority's establishment at Harwell, Berks.

THE Purchase Tax (No. 2) Order, 1960, effective March 18, exempted from purchase tax the oral vaccine prepared for use from the irradiated larvae of *Dicyocoelium Viviparus* (for the protection of cattle against husk).

DERBY Co-operative Society, Ltd., have, at the recent annual licensing session in the town, been refused four applications for off-licences but granted permission to sell medicated wines at one of their pharmacies.

THE Board of Trade state that they are considering an application for the imposition of an anti-dumping duty on ethanediol (mono-ethylene glycol) imported from the United States of America.

MR. David Victor Smith, M.P.S., has been appointed secretary of the London Pharmaceutical Committee in succession to Mr. P. A. Dix, M.P.S., D.B.A., who resigned in January. Mr. Smith takes up his appointment on May 1.

THE danger of gassing or poisoning arising from the manufacture, processing and handling of toxic materials, is the main topic in the latest issue of "Accidents — How they happen and how to prevent them" (H.M. Stationery Office, price 1s. 3d.).

AREAS extending for approximately ten miles around infected premises in Layer Breton, Colchester, Essex, and Hertford Heath, Hertford, Herts, have been declared infected areas under the regulations relating to foot-and-mouth disease.

A SUBJECT index of statutory instruments, memoranda and circulars issued in connection with the National Health Service has been published by the Institute of Hospital Administrators, 75 Portland Place, London, W.1 (2s. 3d., post free). It covers the period up to the end of 1959.

A CUSTOMER credit scheme covering items priced at £5 or higher has been introduced in the 1,300 branches of Boots, Ltd. The scheme offers extended credit of up to twelve months at the discretion of the branch manager. Payments must be made monthly. There are to be no interest charges and customers will pay nothing above the normal retail price except sixpence for the stamp on the agreement. The system will be financed from the company's own resources.

## TOPICAL REFLECTIONS

By Xrayser

## One view of costs

The present holder of the office of Minister of Health (Mr. Derek Walker-Smith) made some extremely interesting observations in the course of defending (or excusing) the need for a supplementary estimate for the National Health Service (p. 312). Instead of referring to "the bottle habit" (Sir Kingsley Wood); or "medication on that massive scale" (Iain Macleod); or the "bad national habit of persistent medicine taking" (Macleod also), the Minister of Health said on March 14: "There are roundabouts as well as swings. There are the obvious social and humanitarian advantages derived from these new drugs. But in addition to that, new remedies—the antibiotics, the corticosteroids, and the new cardiac remedies and so on—benefit the national economy as well as the individual well-being, because they make it possible for people to be treated at home instead of having to go to hospital, and they shorten the duration of illness and promote the economic efficiency of the community thereby." The views expressed have been expressed before, by eminent physicians and surgeons, and they have been aired in *THE CHEMIST AND DRUGGIST*, editorially and otherwise. The vital difference on this occasion is that the words have been uttered by a Minister of Health. Captain Cuttle was a firm believer in the doctrine of "when found, make a note of." And when a note is made of that speech, it would be well to finish with another quotation from the same source. "We must not be so mesmerised by increases in costs that we overlook the great benefits conferred not only for the cure of disease, but in the promotion of health."

## Another view

A correspondent has sent me a letter from a doctor, published in a national daily newspaper, which makes reference to the Douglas Committee's report. One of the recommendations contained in that report, according to the author of the letter, was that doctors whose average prescription costs are, on two successive occasions, 50 per cent. above the national average, should be "penalised by a fine related to the amount of money which they are said to have squandered in excess of this 50 per cent. figure." The writer points out that an average figure is the mean between the high and the low, and that the average is too low because of inadequate and out-of-date treatment, given by some doctors for fear of disciplinary measures. He adds: "The Douglas report advises stringent penalties for men whose costs are too high. It does not insist upon scrutiny of prescriptions which are cheap." The doctor makes a good point there, for inadequate treatment may well result in precisely the opposite state of affairs from that defended by the Minister of Health, viz. the need for hospital treatment and absence from work, with a damaging effect on the economy. It is perhaps difficult for the sorely beset general practitioner to decide whether he should follow the Minister's policy, thus risking a fine, or treat cheaply, thereby straining hospital accommodation and the national economy at one and the same time. The doctor has my sympathy, but the best treatment should always be at his disposal without the need for complex mental arithmetic.

## Holidays with pay

The letter (p. 288) from a correspondent at Castle Gresley indicates an unfortunate state of affairs in regard to holidays for the single-handed proprietor. There is probably no other occupation that asks so much of the individual as does pharmacy. The qualification is a statutory one, to which statutory responsibilities are attached, and it is not only at holiday time that difficulties arise. A rigid observance of the Pharmacy Acts entails constant attendance during the hours of business. The tobacconist next door, the grocer a few doors along, and the baker opposite may join the butcher on the golf links any afternoon they choose, but such relaxation, except on the statutory half-holiday, is denied the pharmacist. Sudden or prolonged illness is yet another hazard, and it sometimes appears that the apostle of independence buys his freedom at a considerable price.

## TRADE NOTES

**Replaced.** — Lloyd-Hamol, Ltd., 11 Waterloo Place, London, S.W.1, have discontinued the 1-oz. tube of Ultra-tan, replacing it with a 2-oz. tube.

**Pack Changes.** — On March 14, Harker Stagg, Ltd., Emmott Street, London, E.1, withdrew the 8-oz. pack of Emmotone, replacing it with a 6-oz. bottle in carton.

**Now Tax-free.** — On March 18 purchase tax was lifted from Dictol lung-worm (oral) vaccine manufactured by Allen & Hanburys, Ltd., Bethnal Green, London, E.2, and launched in February 1959.

**Change of Pack.** — AT10 brand dihydrotachysterol, which is used to increase blood calcium, especially in tetany, is shortly being issued by the manufacturers, Bayer Products, Ltd., Kingston-upon-Thames, in a new pack. The pack includes a 1-mil measure dropper. The contents and price are unchanged.

**Closings for Stocktaking.** — BUTLER & CRISPE, LTD., 80 Clerkenwell Road, London, E.C.1, notify that their business will be closed for stocktaking on Wednesday, March 30. — J. H. HAYWOOD, LTD., Warser Gate, Nottingham, are closing for stocktaking Friday and Saturday, April 1 and 2. A skeleton staff will handle emergency orders.

**Overall Supply Service.** — A new overall supply service which has been inaugurated by Nylon Rentals, Ltd., Dallas Road, Lancaster, is operated in conjunction with selected laundries and dry-cleaning companies throughout the country. Under the service high-class nylon overalls in an attractive range of

styles and colours are available for men and women. A catalogue giving details is available from the company. For each individual entering the scheme two overalls are provided at a fixed weekly rental but without initial charge. Each week one overall of each employee is collected, laundered and returned.

**Change of Distributors.** — Bengue & Co., Ltd., Mount Pleasant, Alperton, Wembley, announce that they have relinquished the manufacturing and distributing rights in Dipasic, Decalcit and GT50 with effect from April 1. All orders for those preparations should in future be sent to Geistlich Sons, Ltd., Melrose Avenue, Chester.

**Label to Meet New Rules.** — Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1, announce that supplies of gummed slip labels, prepared to meet the proposed changes in the Poisons List and Rules, for packs of Marzine may be obtained either from the company's medical representatives or on application direct to headquarters.

**Pre-packed Culture Media.** — Under the Labacta trade mark J. W. Towers & Co., Ltd., Widnes, Lancs, have introduced a blood-agar base and a nutrient broth, each presented as a sachet. Each sachet is sufficient to prepare 1 litre of medium. Ease of manipulation and consistent standards are the advantages claimed for the products. For the larger user both preparations are available in bulk packs.

**Supplies of Aluminium Alkyls.** — Cyclo Chemicals, Ltd., Manfield House, Strand, London, W.C.2, announce that they have been authorised to sell aluminium alkyls in the United Kingdom on behalf of the original German manufacturers, Messrs. Bergkamen. Commercial quantities are now available in the U.K. of aluminium tri-isobutyl, di-isobutyl aluminium hydride and aluminium tri-ethyl.

**Soap Additive.** — Marchon Products, Ltd., Whitehaven, Cumberland, have made available a new product, Empilan KM9, an additive for toilet and laundry soaps and soap powders, which they claim will disperse lime soap scum formed in hard water. Empilan KM9 is a pale cream waxy solid of soap-like consistency, compatible with all types of soap, and stable under all normal conditions. It can be incorporated in the usual course of manufacture on all standard soap-making equipment.

**Flasks in Three Sizes.** — The Isovac gold seal vacuum flask, manufacturers of which are L. Rees & Co., Ltd. (Isovac, Ltd., division), 31 Wilson Street, London, E.C.2, is now available in 8-oz., 16-oz. and 36-oz. sizes. Features are the polythene stopper with quick-lock fitting (leak-proof on a quarter turn); absence of threads; drip-free all round pouring lip; centre-sealed tip, permanently protected; polythene shock pad supporting the glass lining; "almost unbreakable" plastic cup; and individual carton.

**Package Changes.** — Biometica, Ltd., Elstree Way, Boreham Wood, Herts, announce that Pinaud *Lilac Vegetal* after-shave lotion, blue in colour and

containing azulene, is now issued without individual unit carton. The old-style Pinaud pale-green *Lilac Vegetal* after-shave lotion is henceforth available in 8-oz. old-style bottle with old-style label (reintroduced). Stocks of Pinaud *cosmetique brillantine* are exhausted and it is being discontinued. Small stocks of the 1ls. 3d. size *cosmetique brillantine* (catalogue No. 1200) are available, but when those are sold that size also will be discontinued.

**A Companion Volume.** — To cater for the indoor plant enthusiast in the same way as with their strikingly successful "Be your own Gardening Expert" booklet for amateur gardeners



(400,000 copies sold in less than a year), Pan Britannica Industries, Ltd., Britannica Works, Waltham Abbey, Essex, have produced a new publication "Be your own House Plant Expert." The booklet is priced at 1s. 6d. and is supplied to the trade in display carton of 24.

### Bonus Offers

AYRTON, SAUNDERS & CO., LTD., 34 Hanover Street, Liverpool, 1. Ayro-ware rubber gloves, 3-doz. lots assorted less 5 per cent.

### NEW PRODUCTS

**Acne Cream.** — Following a successful trial in the Tyne/Tees television area, Genatosan, Ltd., Loughborough, Leics, are releasing for sale nationally an acne cream, Medac, which is supported by national advertising. Medac is issued in display outer of 1 doz. or in a larger standard pack quantity of 4 doz.

**Antibacterial Agents for the Ear.** — Lloyd-Hamol, Ltd., 11 Waterloo Place, London, S.W.1, are marketing a new medicinal speciality Ciloprine containing, in glycerin solution, two new antibacterial agents: sodium 4-amino-4'-carboxymethylaminodiphenyl sulphone, 0.83 per cent. w/v, and NN'-di(hydroxymethyl) urea, 0.41 per cent. w/v. Both agents are understood to be highly active against a wide range of bacteria, including the principal causal organisms of ear infections. Ciloprine is claimed an effective adjuvant in the treatment of the majority of cases of acute otitis media. It is also indicated in the treatment of otitis externa, myringitis bullosa and infected wounds following aural surgery. The product is presented in a bottle containing 5 mils fitted with pipette and teat.



**STANDARD AND BULK PACKS:** The 150-mil and 4-litre packs of the recently introduced HisoHex bactericidal and bacteriostatic skin cleanser of Bayer Products, Ltd., Kingston-upon-Thames, Surrey. The 150-mil pack is a refillable squeeze bottle in normal grade polythene; the 4-litre "jerry-can" size is moulded in high-density polythene. Both packs are green and opaque to reduce light transmission. The larger container is returnable.

**Roughened-grip Rubber Glove.** — Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool, 1, are marketing a new Ayroware flock-lined,



roughened grip rubber glove, individually packed in transparent plastic case. The glove is available in three sizes, suitable for either men or women.

**Heart-shaped Lipstick.** — A heart-shaped lipstick, so designed, say the makers (Helena Rubinstein, Ltd., 3 Grafton Street, London, W.1), to give "a clear, crisp and immaculate outline" is being marketed in a satin gilt case that is claimed to be scratch-proof and tarnish-proof. The lipstick is issued in seven shades: Red, pink, rose red, coral, peach, cherry and rosewood. Refills are available.

**Fluid Skin-toning Cream.** — Lancome (England), Ltd., 14 Grosvenor Street, London, W.1, are issuing a new beauty product, Frescabel, a "fine,

colourless, refreshing, cool, toning fluid cream for daily early morning use" under a foundation. Frescabel is not claimed to replace skin-care creams nor to take the place of foundations or make-up base. Its function is to tone and revive the skin prior to make-up. The product is available in 1½-oz. and 2-oz. sizes.

**Protective Skin Lotion.** — The Little Women skin lotion marketed by Dorothy Gray, Ltd., Kingston Road, Raynes Park, London, S.W.20, is a light filmy emulsion that may be used as a foundation for "the very first box of powder." Other products offered by Dorothy Gray for the young girl include "special blend" powder to hide freckles and "rose porcelain" to compliment a fair transparent skin; "Elation" pink or wild-coral Satura lipsticks; eye-shadow stick "to give a hint of eye shadow"; and deodorant perfume spray.

**Three New Lipsticks.** — To meet a current demand for "the new terra cotta look in lipsticks," Lancome (England), Ltd., 14 Grosvenor Street, London, W.1, have introduced three new lipsticks, *Cornaline* (brilliant), a warm shade of rose orange with no yellow; *Caroubier* (Carob tree), "the shade of the redwoods of the Mediterranean Carob tree" (made in Neo-satin only); and *Bois de Rose* (brilliant), "a true terra cotta rose." All are available as lipstick, lipstick refill, cartouche, rouge (cream) and nail varnish, the *Cornaline* and *Caroubier* varnishes being frosted and the *Bois de Rose* plain.

## PHOTOGRAPHIC NOTES

**Now With Autaset Feature.** — Since January 1, 1960, all orders for model 624EE Autaset cine cameras have been met with models incorporating the film-speed index control feature. Makers are Rank Precision Industries, Ltd., Mithcheldean, Glos.

**Inexpensive Miniature Cameras.** — Sole wholesale distributors of the Ferrania Ibis cameras are Neville Brown & Co., Ltd., 77 Newman Street, London, W.1. The cameras, the Ibis 44 (twelve pictures on 127) and Ibis 34 (sixteen pictures on 127) have Ferrania f/7.7 65-mm. acromatic lens, with precision focusing; shutter speeds of 1/100 and 1/50 sec. and B (flash-synchronised); two stop settings; brilliant optical view-finder; double-exposure prevention device.

**Dental X-ray Film.** — Newly available from Ilford, Ltd., Ilford, Essex, Ilford fast dental x-ray film has twice the speed of the Standard film over the range of kilovoltages employed in dental radiography. That enables a reduced exposure and reduced dosage to the patient, also reducing the scattered radiation that may be absorbed by the radiographer, and effectively prolonging tube life. Although a fast emulsion is necessarily of less fine grain than a slow one, the new film has lost only slightly in definition.

**Fluorography Films.** — Four new films specially designed for optimum response to the main fluorescent screens used in fluorography are available from Kodak, Ltd., Kingsway, London, W.C.2. Fluordak green-sensitive negative orthochromatic film is matched to the spectral

emission of green-type fluorescent screens. It is available in 25-metre and 100-5-ft. rolls of 35-mm. film and in 3-metre, 70-metre and 100-ft. rolls of 70-mm. film. Fluorpan panchromatic negative film is sensitive to yellow-green screens and provided in 25-metre roll of 35-mm. film. Fluordak is a blue-sensitive negative film issued in 100-mm. x 100-mm., 4 x 5 in., and 4 x 10 in. sheets. Eastman Tri-X panchromatic negative film is sensitive to the spectral emission of the electronic image intensifier and is for use in cinefluorography. It is available in 100-5-ft. lengths of 16-mm. film and 100-ft. length of 35-mm. on daylight loading spools; and 200-ft. length of 35-mm. film on type-R negative cores.

**First International Showing.** — The twenty-fifth Kodak International Salon of Photography, an exhibition of photographs by Kodak personnel throughout the world is being held in Britain this year. The photographs are being shown first at the Kodak social centre, Wealdstone, Harrow, Middlesex, 5.30-10 p.m. daily, from March 28 to April 1. They will be at the Ceylon Tea Centre, 22 Regent Street, London, S.W.1, 10 a.m. to 8 p.m. daily, April 5-8, after being opened at a private view by the Rt. Hon. Lord Brabazon of Tara on April 4. Included in the exhibition will be 750 exhibits, including black-and-white prints, colour slides and colour prints selected by a panel of judges from a total entry of over 3,000 from Great Britain, France, Belgium, Switzerland, Holland, Italy, Eire, Germany, United States of America, Canada,

Mexico, India, Australia, New Zealand, Hong Kong, Singapore and South Africa. The George Eastman Memorial Gold Medal for the best pictorial print of the salon has been won by P. J. Sanger (Kodak photographic school, Harrow).

**Reversal Colour Film.** — Ilford, Ltd., Ilford, Essex, are launching in April a New Ilford reversal colour film, Ilfachrome, in 20- and 36-exposure 35-mm. cassettes. Ilfachrome introduces new and important alterations in the multi-layer assembly, giving more accurate reproduction of flesh tones, better and brighter skies, and better and brighter colour throughout the entire range of red and yellow subjects. It also incorporates a new and unique scratch-free backing of high performance. The speed of Ilfachrome is 10 ASA, 21 BSI, or 11 DIN as for Ilford colour film D which it replaces, and it retains the same characteristics of fine grain and high definition.

## MAKERS' ACTIVITIES

**Silver by the Ton.** — A ton of silver coins, a spade and a wheelbarrow await the winner of a Max aerosols "Ton of Silver" contest organised by Mondart, Ltd., 49 Park Lane, London, W.1, when he attends a prize-winning party in London on April 29. Television personality David Nixon is inviting the winner to dig into the pile of coins for two minutes, and at the end of that time he or she can wheel away all the silver that has been loaded into the barrow. The company have also invited Lord Brabazon of Tara to dig three spadefuls of silver to be donated to the World Refugee Year Fund. For each of the runners-up in the competition, which was featured in the London *Daily Express* on March 18, there is a Grundig "Cub" portable tape-recorder. Entrants were required to count correctly the number of objects beginning with the letter "M" in a picture printed in the *Daily Express*, and to write for Max aerosols a slogan that will be used as a deciding factor in choosing the winner in the event of a tie.

**Wine-Cellar Rendezvous.** — Famous wine cellars in Regent Street, London, were the unusual venue chosen by the directors of C. F. Gerhardt, Ltd., for a reception given on March 17 to Mr. S. Barksdale Penick, jun. (president, S. B. Penick & Co., New York, U.S.A., and treasurer of the American Pharmaceutical Manufacturers' Association), who is staying a short while in England. The cellars, which were still being run operationally for bottling wines at the beginning of the reception, were appropriately decorated with valuable china drug jars for the occasion. Among the guests were Dr. T. H. M. Kerfoot (past-president of the Association of British Pharmaceutical Industry), Sir S. Harold Gillett (a former lord mayor of London), Mr. C. A. O. Rideal (May & Baker, Ltd.), Dr. D. E. Wheeler (Wellcome Foundation, Ltd.), Dr. K. R. Capper (editor, scientific publications, Pharmaceutical Society), Dr. R. Powell (Smith & Nephew Pharmaceuticals, Ltd.), Sir W. Arbuthnot Lane (Kaylene (Chemicals), Ltd.), Mr. D. R. Mackie (Monsanto Chemicals, Ltd.), Mr. J. M. Kirkness (deputy secretary, A.B.P.I.)

## IN PARLIAMENT

BY A MEMBER OF THE PRESS GALLERY, HOUSE OF COMMONS

MR. BEVINS (Postmaster-General), on March 16, refused to accede to the suggestion by MR. R. MASON, that the reports of the advertising advisory committee of the Independent Television Authority should be available to members of the House of Commons.

### Trade With China

Quotas for imports from China for the period January 1 to December 31, established under arrangements announced during November 1959, included £350,000 for chemicals and pharmaceuticals (subject to type), stated MR. F. J. ERROLL (Minister of State, Board of Trade) in a reply to MR. ELLIS SMITH on March 15.

### Sunday Trading

MR. P. W. HOLLAND asked the Home Secretary, on March 12, if he would introduce legislation to remove the anomalies that existed between the Sunday sale of certain items from static and mobile shops. In his reply MR. D. VOSPER (Joint Under-Secretary of State, Home Department) said that considerable alteration of the Shops Act legislation would be required.

### Drugs and Crimes

MR. F. NOEL-BAKER asked the Home Secretary what information, regarding the effect of drugs prone to give rise to addiction, that were on sale to the general public, was in the possession of certain prison medical officers and would he ask the Prison Commission for, and publish, a report. MR. D. VOSPER, in a written reply on March 17, said there was insufficient material for the compilation of a useful report on the subject. Persons believed, or in some cases known, to have been in the habit of taking drugs had committed crimes, but the connection, if any, between the habit and the crime had not so far been determined.

### Purchase Tax

MR. M. A. NOBLE asked the Chancellor of the Exchequer if he would make a statement about the liability to purchase tax of Dictol, an oral vaccine for the protection of cattle against husk. MR. D. HEATHCOAT AMORY (Chancellor of the Exchequer), in a written reply on March 17, referred to an Order freeing the product from tax on that day.

### Resale Price Maintenance

MR. W. CLARK asked the President of the Board of Trade if he would make a statement about his inquiries into the practice of individual resale price maintenance. MR. REGINALD MAUDLING (President, Board of Trade), in a written reply on March 17, stated that investigation had shown that the information available to the Board of Trade was insufficient to enable him to form any firm conclusions about the extent and effects of the practice of individual resale price maintenance. He had therefore decided to institute a fact-finding inquiry into the subject. An announcement would shortly be made inviting interested organisations

and individuals to send written evidence to the Board of Trade. "Such evidence may, as necessary, be clarified or supplemented by oral evidence." In order to permit the greatest possible freedom in the expression of views the inquiry would be confidential.

### Imferon

LORD BALNIEL asked the Minister of Health, in view of the doubts that had arisen regarding the safety of Imferon, whether he would ensure that it was not included in *Prescribers Notes* until further tests had been undertaken. MR. DEREK WALKER-SMITH (Minister of Health), in a written reply on March 16, referred to the fact that the manufacturers had decided to suspend the sale of the drug for general use, pending an independent re-examination of all the available evidence.

DR. B. STROSS asked, on March 21, if the Minister of Health realised that the finding that some metals, or iron, at least, might be carcinogenic in certain circumstances had come rather as a surprise to all investigators. Would the Medical Research Council do some further research in the matter? MR. DEREK WALKER-SMITH said the manufacturers had already decided to suspend the sale of the drug for general use pending an independent re-examination of the available evidence. He thought it would be premature to comment further until the re-assessment had been made.

### N.H.S. Expenditure

LORD BALNIEL asked the Minister of Health the gross cost of the National

Health Service for Great Britain as a percentage of the gross national product. In a written reply on March 18, MR. DEREK WALKER-SMITH stated the figures were: 1949, 3.7 per cent.; 1951, 3.5; 1952, 3.6; 1953, 3.4; 1954, 3.3; 1955, 3.3; 1956, 3.3; 1957, 3.3; 1958, 3.4. A firm figure for 1959 was not available, but such estimates as could at present be made indicated that the percentage may be about 3.6. In the figures provided, the gross national product had been taken at market prices, and the cost of the service had been taken as total expenditure net from all sources of revenue.

### Arsenical Sprays

A number of questions by MRS. J. S. BUTLER on March 21 were concerned with the use of arsenite sprays on potato foliage. MR. J. B. GODBER (Joint Parliamentary Secretary, Ministry of Agriculture, Fisheries and Food) in his replies confirmed that there was no evidence that the operation caused any risks to consumers. The recommended safety precautions were made to safeguard those concerned in the industry.

### Oral Poliomyelitis Vaccine

MR. B. JANNER asked the Minister of Health what research had been undertaken in the United Kingdom in respect of the "United States poliomyelitis vaccine orange juice," and with what result. MR. DEREK WALKER-SMITH in a written reply on March 21 stated that the Medical Research Council was going ahead with trials of the Sabin oral poliomyelitis vaccine, to which, he took it, Mr. Janner referred.

## N.H.S. TRIBUNAL

### A company barred from contractors' lists

FOLLOWING an inquiry the National Health Service Tribunal has directed that Woodgrange (Southend) Pharmacy, Ltd., 165 Woodgrange Drive, Southend-on-Sea, shall be removed from the Pharmaceutical List of the Southend-on-Sea Executive Council and that the company's name shall not be included in any corresponding list kept by any other Executive Council. The Tribunal consisted of Sir Reginald Sharpe, Q.C. (chairman), and Messrs. H. Lesser, C.B.E. (standing member) and T. Heseltine, M.P.S. (practitioner member). The inquiry followed a complaint by the Southend Executive Council that on five occasions the company had been brought before the Pharmaceutical Services Committee for inaccurate dispensing and that to maintain company's name on the list of contractors would be prejudicial to the National Health Service (see *C. & D.*, January 23, p. 79).

The Tribunal first met on September 25, 1959, when the executive council was represented by Mr. Hugh H. V. Forbes (counsel). The facts of the case were not disputed. Mr. A. Leggatt (counsel for the respondents) submitted that the Tribunal had no jurisdiction over the second respondent (the pharmacist concerned) as his name was not

in any part of the complainant's Pharmaceutical List. The Tribunal found that the second respondent's health had been far from good during recent years, owing, in the main, to business worries.

### "No Holiday for Ten Years"

During 1959 the pharmacist told a consultant psychiatrist that he had not had a holiday for over ten years, and during 1958 he had often felt very tired and in need of a change. An educational psychologist who tested the pharmacist found a disturbance of efficiency of visual retention that needed further investigation. The psychiatrist recommended a period of convalescence of at least three weeks followed by a further examination. That recommendation was made in February 1959, but at the end of September 1959 the pharmacist had still not had any convalescence or change of any sort. It appeared that that was due to lack of financial means, though the pharmacist was a bachelor and lived with his brother (his co-director), who was himself married but had no children. At the hearing on September 25, 1959, the Tribunal was informed that arrangements had been made for the pharmacist to have three weeks' convalescence, and that efforts were being made to sell

the business as a going concern. The Tribunal therefore adjourned the case until December 22, 1959, upon the pharmacist's giving his personal undertaking (a) that he would do no dispensing between October 5 and November 2, 1959; (b) that he would have three weeks' convalescence from October 4, 1959; and (c) that he would furnish the Executive Council with a copy of the psychiatrist's further report immediately thereafter. When the hearing was resumed the psychiatrist's report showed that the pharmacist had benefited considerably as a result of his convalescence. The concluding paragraph of the report was—"To sum up, it appears that this man has made definite improvement because of his convalescence, and there does now appear to be reasonable hope that he will not repeat any serious error in his work. I would strongly advise, however, that he should take regular rest periods in the future." From evidence it appeared that the pharmacist was a director of the company, with an equal share-holding with his brother. He took from the business a weekly salary of £9, his brother drew £7, and the two salaries absorbed the whole of the profits of the business. The pharmacist had no other financial means or resources. The Tribunal was abundantly satisfied that the pharmacist's errors in dispensing were entirely due to his mental and physical condition. He had benefited considerably from his holiday, but that only "brought down upon his and his brother's heads further financial worries, as they could not afford to employ a locum . . . and their appeal to the Pharmaceutical Society for help with a locum could not be answered." The Tribunal suggested to the pharmacist when he was in the witness box that he could obtain employment elsewhere at £16 to £20 a week (which was twice as much as he was able to draw from his own business), and would be free of all financial worries, but the pharmacist said that, though that might be so, he felt he must stand by his brother, who had originally provided the capital with which to start the business and who, too, had not had any holiday for over ten years.

#### Inherent State of Affairs

The Tribunal was by no means satisfied that the pharmacist was yet fully capable of dispensing accurately and judging by his appearance, demeanour and general manner in the witness box, each member of the Tribunal was of the opinion that he was still unfit to dispense prescriptions under the National Health Service. It was clear that he was bound to remain under the continued pressure of financial worries. That state of affairs was inherent in his present business occupation. He was not going to be able to afford another holiday in the foreseeable future, and, according to the consultant psychiatrist, needed regular rest periods in the future. His feelings of loyalty to his brother prevented him giving up his present work and taking paid employment at a far higher salary. The Tribunal stated: "In one sense this loyalty to his brother is something to be admired; but it cannot possibly lead

to quietness and calmness of mind such as are requisite for proper and accurate dispensing work."

In the circumstances the Tribunal was unanimously of the opinion that the pharmacist ought not to be allowed to continue to be the pharmacist in charge at the company's place of business for the purpose of dispensing prescriptions under the National Health Service. His name was not included in the Executive Council's Pharmaceutical List and it did not anywhere appear in that List as the registered pharmacist in charge of any body corporate. Therefore the Tribunal was unable to direct that his name should be removed from such List, but it was able to direct the removal of the company's name. The company were also ordered to pay the costs of the Executive Council incidental to the hearing. No order was made as to the costs of the pharmacist. No appeal was received against the Tribunal's decision, and the company's name may not be included in any Executive Council's Pharmaceutical List until the Tribunal or the Minister of Health directs.

#### COMPANY NEWS

Previous year's figures in parentheses

**JOHN KNIGHT, LTD.** (controlled by Unilever, Ltd.)—Net profit for 1959 £214,927 (£189,885) after tax of £178,108 (£161,520).

**GILLETTE INDUSTRIES, LTD.**—Mr. Cecil F. Abderhalden (managing director) has been appointed to the board of the Gillette Co. in the United States, and elected a vice-president.

**SPRATT'S PATENT, LTD.**—The offer by Spillers, Ltd., to acquire all Ordinary shares (see *C. & D.*, February 13, p. 170), has been accepted in respect of about 85 per cent. of the shares and has become unconditional.

**PRETESTED PRODUCTS, LTD.**, Rickmansworth, Herts (the United Kingdom subsidiary of the Carter Products, Inc., and Wallace Laboratories organisation of the United States)—Mr. D. W. H. Waite, M.Sc., A.R.I.C., has been appointed director and general manager.

**LEWIS & BURROWS, LTD.**—Clinical Industries, Ltd., and Mr. S. K. Zilkha, who recently purchased from Mappin & Webb a 93 per cent. holding of the Ordinary stock of Lewis & Burrows (*C. & D.*, January 30, p. 110), now offer to purchase the minority holdings at the same price. The offer remains open until April 5.

**IMPERIAL CHEMICAL INDUSTRIES, LTD.**—Mr. S. Howard has been appointed chairman of the company's pharmaceuticals division in succession to Mr. P. A. Smith, who is retiring on March 31. Mr. G. W. Innes, who has been manager of I.C.I.'s northern regional sales area since 1957, succeeds Mr. Howard as joint managing director of I.C.I.'s dyestuffs division. Mr. E. D. Carey, who has been managing director of the pharmaceuticals division since 1956, succeeds Mr. Innes.

**YARDLEY & CO., LTD.**—A final dividend of 22½ per cent., making 30 per cent. for 1959 is recommended. That represents an increase of 7½ per

cent. allowing for a one-for-one scrip issue over the previous year. Group trading profit increased from £1,298,987 to £1,575,991, and a net profit of £624,601 compares with £573,777, after tax of £789,856 (£644,403), retentions of £143,492 (£74,641) by subsidiaries, and the £18,042 (£6,155) attributable to minority interests.

**LAPORTE INDUSTRIES, LTD.**—It is proposed to capitalise some of the reserves and make an issue to the Ordinary shareholders of fully paid Ordinary shares on the basis of one new share for every five held. The new shares to be issued will rank for the final dividend payable in July. The directors are to recommend a final dividend on the increased capital at the rate of 7½ per cent. which, with the interim dividend of 3 per cent. already paid, is equivalent to a total dividend for the year of 12 per cent. on the existing capital.

**SMITH KLINE & FRENCH LABORATORIES, Philadelphia, U.S.A.**—Consolidated net sales for 1959, \$134,890,663 (\$124,065,774 in 1958). Earnings after taxes, \$25,005,738 (\$20,805,309). A dividend of \$1.20 per share was paid stockholders in 1959 (86½ cents). In a review of the year's activities, the annual report noted research and development expenditures rose to \$12.1 millions in 1959 with \$13.5 millions budgeted for 1960. The company has begun planning for new facilities in Australia, and expansion at its Mexico City and Montreal subsidiaries.

**MONSANTO CHEMICALS, LTD.** (controlled by Monsanto Chemical Co., U.S.A.)—Sales showed expansion in 1959 and the activity was also reflected in export business which made a notable contribution to the record turnover of £18.4 millions, beating the previous highest figure of 1957 by £2.7 millions, states Sir Miles Thomas (chairman). Direct exports, with a net total of £6.88 millions, represented 37 per cent. of all sales and compared with £5.43 millions for 1958. The active trend appears likely to continue into 1960. During 1959 expenditure on capital projects totalled £1,964,273 (£3,461,106). The reduction is a measure of the progress made in the completion of the major construction programme at the new Fawley factory. Group net profits advanced from £1,016,274 to £1,693,266 in 1959 and as stated (*C. & D.*, February 27, p. 224), the dividend is raised by 1½ per cent. to 15 per cent.

#### New Companies

P.C. = Private Company; R.O. = Registered Office

**MILLER, WALTERS, LTD. (P.C.)**—Capital £100. To carry on the business of retail and wholesale chemists, etc. Subscribers: Jeffrey Milston and David Woda. The first directors are to be appointed by the subscribers. R.O.: 46 Market Place, Reading.

**PARSON PHARMACY, LTD. (P.C.)**—Capital £3,000. To acquire the business carried on by Allen Griffiths (Chemists), Ltd., 68 Ebrington Street, Plymouth. Directors: Walter C. Parson, Beryl E. Parson, June E. M. Parson, M.P.S., and Sylvia P. Ware.

**MINNIS BAY DRUG STORE, LTD. (P.C.).**—Capital £1,000. Directors: Stanley G. Court, M.P.S., and Cecil A. Quarterman, M.P.S. (directors, S. G. Court, Ltd.), R.O.: 6 Minnis Bay Parade, Minnis Bay, Kent.

**D. A. S. ROBERTSON, LTD. (P.C.).**—Capital £2,000. To carry on the business of dispensing chemists and druggists, etc. Directors: David A. S. Robertson, M.P.S., and Gertrude J. Robertson. R.O.: Wooburn Pharmacy, Wooburn Green, Bucks.

**W. J. RUSSELL (PORTSMOUTH), LTD. (P.C.).**—Capital £100. To carry on the business of chemists' and druggists' sundriesmen, etc. Directors: Wilfred J. Russell and Winifred H. Russell. R.O.: 41 Chichester Road, North End, Portsmouth, Hants.

**W. H. KEMP (CHEADLE), LTD. (P.C.).**—Capital £2,000. To carry on the business of wholesale or retail chemists, etc. Directors: Dr. Ruth V. Robson, Thomas G. Robson and Molly M. McLean (directors, W. H. Kemp, Ltd.). R.O.: 59 High Street, Cheadle, Staffs.

**R. SMITH & SONS (CHEMISTS), LTD. (P.C.).**—Capital £50,000. To carry on the business of manufacturing, and dispensing chemists, druggists, etc. Directors: Ernest R. S. Johnson, M.P.S., Reginald Smith (director, Warrington Roofing Co., Ltd.), and Dr. Reginald B. Smith. Solicitors: Forshaw, Richmond & Co., Warrington.

## BUSINESS CHANGES

THE telephone number of West Pharmaceutical Co., Ltd., has been changed to Hove 772215.

**PURFINOL, LTD.**, have removed to Petrofina House, York Road, London, S.E.1 (telephone: Waterloo 1915).

THE packaging division (formerly the plastic packaging division) of Gordon & Gotch, Ltd., has moved its offices to Gotch House, 30 St. Bride Street, London, E.C.4 (telephone: Fleet Street 5211).

## Appointments

**BEECHAM GROUP, LTD.**—Mr. C. D. W. Stafford, M.P.S., has been elected to the board. He has also been elected chairman of Beecham Research Laboratories, Ltd., a position previously held by Mr. H. G. Lazell, the group chairman.

**HORLICKS, LTD.**, Slough, Bucks, have appointed the following representatives: Mr. T. J. Old (Northumberland, Cumberland, Westmorland); Mr. R. J. C. Starling (Norfolk, Suffolk, Huntingdonshire, Cambridgeshire and part of Essex); Mr. J. R. F. Treagus (South Wales area); Mr. R. K. Snell (Devon, Cornwall).

**BAYER PRODUCTS, LTD.**, pharmaceutical sales division, Kingston-on-Thames, have appointed Mr. F. W. Catley their assistant sales manager; Mr. J. A. Green, regional sales manager in South-east England and Mr. H. R. Martin their training officer. Mr. M. C. Williams, B.Sc., M.P.S., has been appointed representative for Eastern Kent.

**J. GROSSMITH & SON, LTD.**, have appointed Mr. Arthur Wolfenden, 55

Queensville Avenue, Stafford, their representative for Grossmith and Hartnell perfumery in Worcestershire, Warwickshire, Shropshire and S. Staffordshire. They have also appointed Mr. D. K. Ludley, Lynwood, Ashtofts Mount, Guiseley, Leeds, their representative in N. Lancashire and Northwest Yorshire.

## DEATHS

**ARMSTRONG.**—On March 10, Mr. Patrick J. Armstrong, Ph.C., L.P.S.I., 12 Weaver Square, Dublin. Mr. Armstrong was one of the oldest pharmacists in Ireland. A native of Mallow, co. Cork, he qualified in 1913, and shortly afterwards set up business in Bray, later transferring to Weaver Square.

**BALES.**—On March 15, Mr. Walter Albert Bales, M.P.S., 52 Albany Road, Coventry, Warwicks. Mr. Bales was apprenticed at the old Coventry Dispensary, and qualified in 1910. He began his first business in Albany Road in that year and later opened two other shops. He was chairman of the Coventry Branch of the National Pharmaceutical Union and had held that office for thirty years. Five years ago, at a dinner given in his honour, he was presented with a silver rose bowl in recognition of his services to the Coventry and Warwickshire Branch of the Pharmaceutical Society of which he was formerly chairman for many years. He was the vice-chairman of the Coventry Executive Council and had been a member of the Coventry Pharmaceutical Committee since its formation in 1914, and chairman since 1929. *Mr. L. Bonham* (chairman of the Coventry and Warwickshire Branch of the Pharmaceutical Society), writes: The passing of W. A. Bales came as a great shock to pharmacists of Coventry and Warwickshire. He recently completed fifty years in retail pharmacy, and was still a fully active member of the branch. He was a man respected and esteemed by his colleagues for his great and kindly virtues, his tolerance and understanding; always setting a good example and a high standard of behaviour and expecting it from others. His motto was "Pharmacy for those to whom it belongs" and invariably he put infinitely more into pharmacy than he took out.

**BELL.**—On March 3, Mr. James Bell, M.P.S., 94 Cross Arthurlie Street, Barrhead, Glasgow, aged sixty-four.

**BOAKE.**—On March 17, Mr. Edmund Johnson Boake, Doyley Manor, Hurstbourne Tarrant, near Andover, aged ninety-one. Mr. Boake was son of the founder of A. Boake Roberts & Co., Ltd., London. He joined the company in 1890 and was for some considerable time its chairman. In 1952 he resigned his chairmanship but remained on the board of directors.

**BROOM.**—On March 16, Dr. John Constable Broom, O.B.E., M.D., aged 58. Dr. Broom was a member of the staff of the Wellcome Laboratories of Tropical Medicine and a leading authority on leptospirosis. He collaborated with the late Major H. H. Brown in producing the device for estimating the number of bacteria in vaccines known

as Brown's Opacity Tubes. He wrote with Dr. J. M. Alston a book entitled "Leptospirosis in Man and Animals" and was secretary of the Leptospira subcommittee of the International Committee on Bacteriological Nomenclature.

**BROWN.**—*Mr. T. H. A. Knight* writes in respect of the late Mr. J. W. Brown, F.A.L.P.A. (see *C. & D.*, March 19, p. 314): "It is with emotion that I heard of the passing of my old friend Joe Brown. He was staunch in his attachments, impeccable in business dealings, generous in heart, and a man of much kindly feeling. I held him in high esteem for over thirty years, during which I had the privilege of his friendship, and know that I shall never see his like again."

**DONNELLY.**—Recently, Mr. John Donnelly, M.P.S.N.I., High Street, Killyleagh, co. Down, Northern Ireland. Mr. Donnelly qualified during 1940.

**KIRBY.**—Recently, Mr. Harold Gabriel Kirby, M.P.S., Church Cottage, St. Mary Bourne, near Andover, Hants. Mr. Kirby qualified in 1908.

**MCLEAN.**—On March 18, Mr. John McClean, M.P.S.N.I., Hillcrest, Greystone Road, Antrim. Mr. McClean qualified in 1930 and prior to his death had carried on business for many years at High Street, Antrim.

**PARKS.**—On January 10, Mrs. Phyllis Mary Parks, M.P.S., 18 Cranbrook Drive, Esher, Surrey. Mrs. Parks qualified in 1920.

**RATCLIFFE.**—On March 15, Mr. Colin Eric Ratcliffe, B.Pharm., F.P.S., 22 St. Mary's Avenue, Norwood Green, Southall, Middlesex. Mr. Ratcliffe qualified in 1953. *Mr. J. Anderson Stewart* writes: Pharmacists of at least two generations will learn with regret of the death of Colin Ratcliffe. I found him a rare character, and learned to value his friendship over the past 20 years. He was the only son of Mr. Ernest Ratcliffe, formerly of Wembley. Colin came to pharmacy late in life, as in his youth he decided to join the Royal Navy, and spent the last war afloat. He decided to seek his release and settled down to study for his Bachelor of Pharmacy with the zest he gave to everything in life. Just when his degree finals came along it was found that he was suffering from leukaemia, but he remained undaunted and continued to conduct his life with undiminished vigour. However, he found that his experience in electrical engineering gained in the navy was wasted in retail pharmacy, and he took up a post with Messrs. Parke, Davis & Co., Ltd. He regarded his condition with a true scientific detachment, collaborating with his medical advisers, but he found energy to play hockey and other active sports.

**SHAW.**—On March 20, Mr. Albert Harry Shaw, M.P.S., 13 Wilshaw Grove, Ashton-under-Lyne, Lancs. Mr. Shaw qualified during 1920.

**STERLING.**—Recently, Mr. James Sterling, M.P.S.N.I., The Square, Dromore, co. Down, Northern Ireland. Mr. Sterling qualified in Dublin during 1913, and registered with the Pharmaceutical

Society of Northern Ireland in 1926. He carried on business in Dromore for forty-five years until his death.

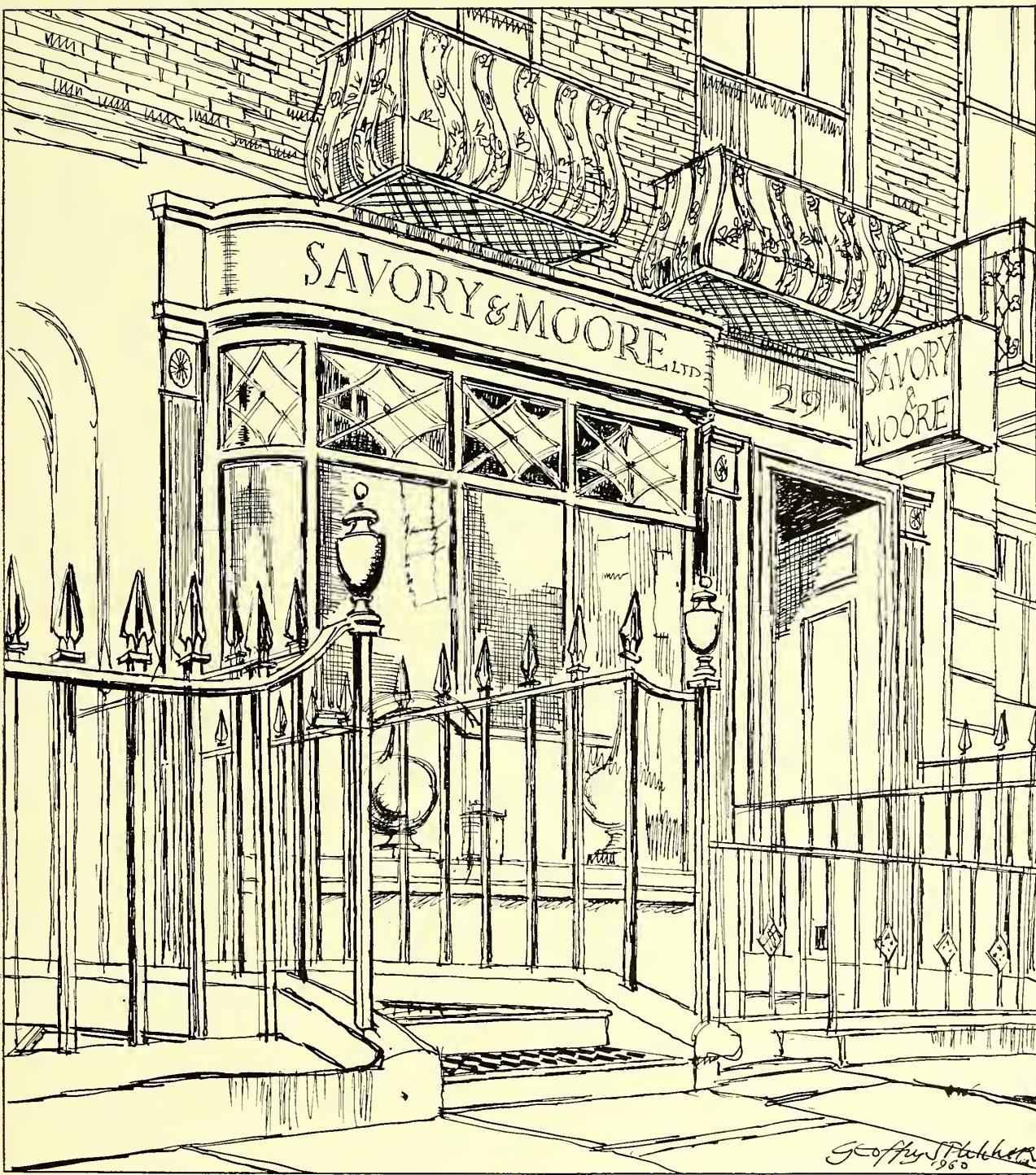
STEWART.—Recently, Mrs. Annie

May Stewart, M.P.S., Brabehall, 120 Station Lane, Seaton Carew, West Hartlepool, co. Durham.

WRIGHT.—On March 2, Mr. Wil-

liam Oscar Wright, 341 Beverley Road, Hull, Yorks, aged sixty-two. Mr. Wright qualified as a chemist and druggist in 1921.

## PHARMACIES OF BRITAIN



### THE PHARMACY AT CHAPEL STREET, LONDON, W.1

The pharmacy of Savory & Moore, Ltd., at 29 Chapel Street, London, W.1, is in a street of charming Georgian houses off Belgrave Square. The window of the pharmacy has been carried out in a Georgian style suitable to the rest of the building. The first prescription dispensed at the pharmacy was in 1849. From 1852 for many years the business was managed by Mr. Charles Hunt, who had a considerable personal reputation among the aristocracy of Belgravia.

# METRIC SYSTEM IN PRESCRIBING

## Edinburgh pharmacists and doctors in favour of immediate adoption

THE joint meeting of the College of General Practitioners, South-east Scotland Faculty and the Edinburgh & South-east Scottish Branch of the Pharmaceutical Society debated the motion "That there should be an immediate introduction of the metric system in prescribing and dispensing." After a lively discussion the vote went in favour of the motion by the slender majority of fourteen.

DR. L. LAMONT, opening the discussion in favour of the metric system, pointed out that in all European countries the metric was the only system in use. New drugs were almost daily making their appearance in medicine, so that it was only fit and proper that the two sciences, medicine and pharmacy, should keep abreast in prescribing habits.

### An Opportune Time

Schools of medicine were teaching medical students the use of the metric system in prescribing, and in a few years doctors would not be accustomed to the use of the imperial system. The hardships envisaged for the older doctors were more imaginary than real. Dr. Lamont suggested the present was a most suitable time, with the advent of a new edition of the British Pharmacopoeia and of the British Pharmaceutical Codex, to change over at once. He urged those present to support the change.

MR. ERIC KNOTT, speaking against the immediate change, outlined the early history of British weights and measures, and then went on to quote examples of prescriptions written in the metric system. One which was of interest was:

Streptomycin sulphate ..... 0.25 gm.  
Mist. Kaolin, Alk. ...

8 mils. Send 90 mils.

Label: 8 mil four hourly.

A survey of the liquid preparations dispensed showed that the prescriber still thought and wrote in terms of grains, minimis and ounces.

An investigation of 1,470 prescriptions dispensed during December 1959 showed that 580 were written in the metric system and included preparations put up in metric quantities and where strengths were similarly expressed (the sulphonamides), 130 of the 580 were for packs and were written in metric (for example, cortisone ointment). Fifteen of the total number of scripts were written in the imperial for packs supplied in metric quantity (e.g., suspension penicillin) and twenty were extemporaneous, written in metric (mist. pot. cit. 240 mils).

It was interesting to note that these twenty extemporaneous scripts were written by a young assistant who during the next month reverted to the imperial system.

Over a series of batches of prescriptions the percentage of scripts written extemporaneously in the metric system ranged from 3.44 per cent. to nil with an average of approximately 0.5 per cent.

Formulas in the British Pharmaceutical Codex for medicines which were regularly prescribed were given in what could only be described as "master" form in the metric and in dose form in the imperial. It was somewhat difficult to do anything else but prescribe in the imperial system for the dose, since the volume or weight from the metric quantities was difficult to visualise. A like problem was met with in the case of tablets which were made in the imperial and prescribed in the metric form. Dressings were only available in the imperial system. A few "ethical" dressings had an equivalent metric measure stated on the container.

MR. C. G. DRUMMOND, supporting Dr. Lamont, quoted "If it is necessary to have a change, by all means let it be at once, to the best system that can be adapted, and the metric system is acknowledged by all to be the simplest and best." Mr. Drummond quoted from records between 1896-1957 in favour of the metric system and asked "How much more gradual could we possibly be?"

DR. RICHARD SCOTT, speaking in favour of the gradual change, said that in spite of Mr. Drummond's eloquence, he was still of the opinion that the inevitable change must come about, by a process of evolution as rapid as possible, but certainly not overnight by drastic revolutionary means. He asked the audience to consider that the vast majority of the pharmacologically effective drugs prescribed in routine daily practice were not even in existence when he was a medical student—"and that was not really so very long ago." Practically all new drugs were packed, prescribed and dispensed in the metric system. He thought of those drugs and of their dosages in the metric system. There had taken place in the post-war years a decided and marked swing away from the bottle to the tablet with a metric dose. More and more of his prescriptions were written in metric dosage, but he did not use either system exclusively, and that quite rapid trend towards the metric system had come about quite painlessly. However bizarre or illogical may be his mixture of imperial and metric prescribing habits, he had not yet met a pharmacist so lacking in resource, skill or knowledge that he could not dispense precisely what the doctor ordered.

### All Requests Met

Great Britain was fortunate in the high standard of ethics of its pharmaceutical industry and of the service which the drug houses rendered to the medical profession. The manufacturing chemist certainly missed no legitimate opportunity to seek to influence the prescribing habits of the family doctor. "On the other hand, there is nothing that we ask for, via our pharmaceutical colleagues, which the manufacturing and wholesale chemist cannot supply. I think it is only right that, speaking as a doctor, I should be the first to point out that it is the doctor who writes the prescription. Therefore, in

the ultimate analysis, the final responsibility for determining the rate of evolutionary trend towards the metric system is largely determined by the medical profession itself."

Dr. Scott said he did not know of any country in the world where the doctors received more efficient, courteous and willing service from their pharmacist colleagues than in Great Britain. The tradition of training of pharmacists and the standards of training, and particularly in the city of Edinburgh, were unrivalled. Of perhaps even more importance was the high ethical standards, largely self-imposed by the pharmacist, which governed his professional relationship with his medical colleagues. Whatever the technical problems of change in prescribing habits, he was completely confident in the ability of his pharmacist colleagues to deal with them. Time and again he had written a prescription which gave his chemist colleague some temporary difficulty. To the best of his knowledge, on every occasion on which he had written a prescription which a chemist could not dispense on the very instant and where the slightest modification of prescription, either in dosage or in the substitution of a universally recognised equivalent, would resolve the problem of urgency; the chemist had invariably telephoned him, often apologetically but nevertheless precisely and definitely, and had asked whether or not he would approve of a change.

### Progress by Education

There were quite real practical, technical and professional problems relating in fact to the doctor's freedom which were sufficiently important, in his opinion, to the medical profession and to the general public which caused him to come down on the side of voting against forcing this issue by an overnight administration fiat. It would take some time to wean all doctors from the habit of using the imperial system of weights and measures with all its archaic and old-fashioned inconveniences. It was his submission that the transition was happening sufficiently rapidly in the case of doctors already established in general practice. He considered that progress by education, persuasion and evolution, rather than revolution, lest "in our desire to bring about a change which is theoretically desirable and practically possible, we throw away the baby with the bath water and interfere, however moderately, with this basic right of the doctor to prescribe freely with the absolute minimum of necessary interference or control."

Faced with that kind of dilemma where all the logic and reason of the argument appeared to lie with the opposition, the Frenchman, considering the practical problems involved, would shrug his shoulders and say "*Au principe oui, mais actuellement non!*"

DR. J. MUNRO pointed out that the responsibility of the signature on the prescription was that of the doctor, if

therefore he prescribed in the metric system, then surely the medicine would be dispensed in that system. The solution to the problem would be aided considerably by having all oral preparations in tablet form. MR. J. LIDDELL said the proposal was larger than ourselves, and possibly three years would be a minimum to bring about such a change. DR. S. LEIPTZ said the forcing of any system on either the doctor or pharmacist would be interfering with the freedom of the individual. It should be the prerogative of the prescriber to use whichever system he preferred. MR. J. MYERS considered the time

had long passed when we could profitably discuss when to introduce the metric system, we should discuss how to use the metric system in a logical manner and not to take simply a metric equivalent which would not correspond to the use of a decimal system. It was more appropriate to work in doses of five mils and twenty mils rather than 3.5 or 4 mils for teaspoons and 14 mils for tablespoon. He appealed for a metric medicine measure in every household. It was noteworthy that no one appreciated that necessity. There were practical obstacles to the introduction of the

metric system, and that required discussing and a national plan of action worked out. For example, liquids should be prescribed in volumes of 50, 100, 200, 500, and 1,000-mils. Abbreviations for grain and minim should be placed in front of the number to which they applied and for the gramme and millilitre after the numeral. To enable the pharmacist to check the doses all prescriptions for children should bear the age of the child. DR. MILLER said that he began by writing all his prescriptions in the metric system, but had reverted to the imperial system for clarity and convenience.

## BRANCH EVENTS

### BIRKENHEAD

#### Work for Benevolent Fund

For their work on behalf of the Pharmaceutical Society's Benevolent Fund, the members of the Birkenhead and Wirral Pharmacists' Association were complimented by MR. G. H. HUGHES (president, Pharmaceutical Society). He was speaking at the annual dinner and dance held at New Brighton, and attended by 200 members and guests. MR. W. TREGENZA (president, of the association) proposed the toast to the guests and commented on the growing part women were taking in association activities. This year was the first that a woman (Miss M. C. Dodds) had been elected president of Liverpool Chemists' Association and Branch of the Society.

### FINCHLEY

#### Skin Care and Make-up

A LARGE number of lady assistants joined members of the Finchley and District Branch of the Pharmaceutical Society at their recent meeting to hear a talk on skin care and make-up by MRS. ROMA GIBSON (Yardley & Co., Ltd.). Mrs. Gibson enumerated groups to which such lectures were given, including school and teenage communities. The basic principle of skin care, she said, was cleansing and nourishing, followed by toning. Such treatment required only two or three minutes a day. Mrs. Gibson outlined the correct make-up for all ages and occasions urging a tasteful rather than heavy use of cosmetics. After the interval she gave, with Mrs. Walters as model, a demonstration of a full make-up.

### PORTRUSH

#### Indispensable in any Society

THE Portsmouth and District Chemists' Association held its annual Ladies' Festival at Southsea on February 25, when the lord mayor and lady mayoress of Portsmouth (Councillor and Mrs. L. J. Evans) were the principal guests. The president (Mr. E. H. Wills), welcoming the guests, said that, as a chemist, he spent much of his time dispensing what others had prescribed. That evening it was his pleasure to prescribe an enjoyable and entertaining evening for all present. MR. L. J. EVANS, proposing "The Ladies," said that, as a chemist, he was naturally interested in the activities of the association. He complimented the ladies on the valuable support they gave. He went on to speak of World

Refugee Year, hoping that the ladies would offer their services in that most worthy cause. MRS. L. S. SNELLGROVE responded to the toast. During the evening a cheque for £70 was handed to the president by MR. J. P. BARLOW (treasurer). It represented money collected from members' weighing machines and was sent as donation to the Pharmaceutical Society Benevolent Fund. MR. R. J. BERRY was toastmaster and M.C.

### ABERDEEN

#### More Than One Pharmacist?

MANY aspects of the work of the various committees of the Council of the Pharmaceutical Society were dealt with when MR. J. C. BLOOMFIELD (a member of the Society's council) addressed the Aberdeen and North Eastern Scottish Branch of the Society on February 11 on "Council Policy in relation to the Future of Pharmacy." In the course of his talk he described how the Council had viewed with extreme gravity the rising trend in the sale of those drugs which affect the central nervous system and he traced the various steps taken by the Society to restrict their sale. Finally, after recommendations in the Society's journal, and appeals direct to pharmacists, the Council made application to the Poisons' Board to have those C.N.S. drugs placed on the list of Scheduled Poisons. On education and recruitment, Mr. Bloomfield weighed up the pros and cons of students taking a degree instead of the diploma, as in the past. He argued, that, as the entrance to pharmacy demanded a higher standard, the number of students enrolling would be reduced, but this would be more than offset by the numbers who completed the course. Mr. Bloomfield further stated that, although the number of names on the register had increased in the last five years, the number of registered pharmacies (due to economic and other reasons) had decreased. Where had the extra pharmacists gone? His guess was—into industry and "on the road" as medical representatives. With the number of registered pharmacies diminishing (114 less than last year) he visualised that the day would come—say in about ten years time—when most pharmacies would have more than one qualified pharmacist on the premises. That was as it should be, for a sole pharmacist in business at present, enjoyed, if thus it could be described, a minimum of freedom and relaxation.

### LIVERPOOL

#### A Call to the Younger Members

A PLEA to the younger members of the Pharmaceutical Society to throw in their weight and do for pharmacy what was needed, was made by MR. G. H. HUGHES (president of the Society), at the annual dinner and dance of Liverpool Chemists' Association and Branch of the Pharmaceutical Society in Liverpool on February 17. Mr. Hughes was responding to the toast to the Society, proposed by Mr. H. S. Magnay (director of education, Liverpool). The guests included the presidents of Birkenhead and Wallasey associations, the national president of the National Association of Women Pharmacists (Mrs. E. N. Jones) and the president of its Merseyside Branch (Miss E. F. Llewellyn) and the chairman of the Liverpool and North Wales Branch of the Guild of Public Pharmacists (Miss A. R. Jones). MR. MAGNEY congratulated Miss M. C. Dodd on being the first woman to be president of the association and chairman of the branch. First occupants of the just completed first stage of the new college of technology in Liverpool were the pharmacology and physics departments. The new college would cost £2 millions all told. Mr. Magnay said he had always admired the way the Society had been true to the highest possible standards in education. The new department was directly the result of the Society's pressure. He regarded a professional institution as having three facets: (1) the integrity of its members; (2) the qualifications of its members; and (3) the quality of the service it rendered to the public. Under those tests of integrity, quality and value, the Pharmaceutical Society was a professional organisation of great eminence. MR. G. H. HUGHES expressed pleasure at having the opportunity of attending the function and meeting again pharmacists he had known for many years. He made particular mention of Mr. H. Humphreys Jones, who was seated at the top table. In urging the younger members to "throw in their weight," he said it was not easy to follow in the footsteps of able pharmacists, but there was a biblical saying: "God forbid that we set aside our inheritance." Great people in any profession depended on the small man and small unit, with whose support people had gone to the top in pharmacy and medicine.



Later to propose the toast of the evening, Mr. H. S. Grainger with Mrs. Grainger, join the West Ham Association's president (Mr. W. H. Cloud) and Mrs. Cloud in welcoming guests as they arrive.



Mr. and Mrs. Cloud receive (left) Mr. H. L. Crossley and (centre) Mr. W. L. H. Chapman. At right: An Italian guest, Miss Rosa Pirani, Milan, in conversation with her sponsors, Mrs. and Mr. H. S. Grainger.

## WEST HAM

### Traditional Benevolence

MAINTAINING its long tradition of contributions to pharmaceutical charities West Ham and District Association of Pharmacists collected £44 16s. for the Birdsgrove House Fund by a raffle at its annual dinner and dance on March 3. Earlier Mr. H. S. Grainger had proposed a toast to the Association. Its objects of promoting social intercourse among its members and of furthering the charitable objects of the Pharmaceutical Society were in line, he said, with the traditions of the old Guilds of London. With them went a sense of the dignity of the calling. If ever the time came when pharmacists could no longer take pride in their profession the future would be dismal indeed. Mr. Grainger's remarks were acknowledged by Mr. W. H. Cloud (president of the Association). A toast to the ladies, briefly proposed by Dr. J. F. G. Garden (chairman, Stratford Division, British Medical Association) was equally briefly responded to by Mrs. B. H. Knights.

## LEICESTER

### Annual Dinner

IN spite of the "traditional" adverse weather conditions, over 240 members and guests from the Midlands were present at the recent annual dinner and dance of the Leicester and Leicestershire Branch of the Pharmaceutical Society. The chief guests were ALDERMAN BERTRAM POWELL (lord mayor of Leicester), and MR. F. C. BULLOCK (city analyst). Alderman Powell told

guests that the British were becoming a nation of hypochondriacs. "Today," he said, "the ordinary pharmacist has a terrific job to keep track of all the stuff that comes from the manufacturers. All of them claim to do wonderful things and each is more wonderful than the last." Other speakers included MR. C. W. FAIRBROTHER (chairman) and MR. J. LAUDER (vice-chairman) who welcomed the guests on behalf of the branch.

## YARMOUTH

### A Unique Position

THE value, to the public, of co-operation between the pharmaceutical and medical professions was emphasised by DR. C. V. CORAM-JAMES at the recent annual dinner and dance of the Yarmouth and Lowestoft Branch of the Pharmaceutical Society. Responding to the toast "The Guests," Dr. Coram-James said he did not think the public appreciated how much the dispensing chemist did for them, especially in the important duty of checking doses. "In fact you hold a unique position, and that is to stand between the doctors and the coroner." The speaker said he held very strong views about drugs and their use and abuse, though he was always pleased to see the representatives of the pharmaceutical manufacturers. Discounting something of what they said about their latest panacea, he acknowledged that they usually had the latest and best stories, and that many of them were outstanding personalities. Over 130 attended the dinner, over which MR. E. KING presided. MR. R. C.

HANNANT, who proposed "The Guests," welcomed doctors and pharmacists from surrounding areas. During the evening over £12 was collected for pharmaceutical charities.

## ABERDARE AND MERTHYR

### A Welcome for the President

MR. GWILYM H. HUGHES (president of the Pharmaceutical Society) was given a warm welcome from over 200 guests at the annual dinner and dance of the Aberdare and Merthyr Branch recently in Cardiff. MR. G. BOWEN (Branch chairman) proposed the toast to the Pharmaceutical Society mentioning that Mr. Hughes was the first president of the Society to attend the function. He expressed the good wishes of those present for the quick return to health of Mrs. Hughes, who was unable to attend. As Mr. Hughes was the first Welsh president of the Society the Branch had increased its contributions to the Benevolent and Birdsgrove house funds to £105 and £26 5s. respectively. Mr. Hughes opened his response in Welsh. He said "Mr. Llywydd, Boneddigesau a Boneddigion. Diolch yn fawr i chwi oll am dderbyniad mor gynes i'r wledd arbenig hon. Fel Llywydd Cymdeithas Fferyllwyr Prydain Fawr, teimlaf hi'n faint ac yn anrhydedd i gael dwyed gair bach yn yr hen iaith Gymraeg, a hynny yn y Brif Ddinas. Ydi'r Gymraeg ddidym yn hollol ddieithr hyd yn oed mewn lle fel hwn, oblegid yn un peth, rwy'n deall fod yna selfyddiad Cymraeg llywydianus yma, a thra bydd hyn yn bod fe barheir yr iaith Gymraeg. Maenteisaf ar y cyfle

hwn i ddioch o waelod Calon am eich h'ymdiriedaeth ynof fel Llywydd, ac am eich cefnogaeth parod i bob sefydliad da sydd yn perthyn i ni fel Fferyllwyr. Yn ol y Wyddor, Aberdâr yn gyntaf ar y rhestr, ac yn uchaf yn ei cyfraniadau i'r Gymdeithas. Boed bendith ar ei gwaith a'i llafur." Continuing in English he said that the

branch headed the list of contributors to the Benevolent fund and he was delighted to receive the cheques presented that evening by the chairman. MR. W. R. R. ELLIOTT proposed "The Visitors," among them Messrs. J. Mitchell (president, Pontypridd and Rhondda Valley Branch); H. E. Williams (chairman, Cardiff Branch);

H. W. Woodward (Monmouthshire and Newport Branch); A. G. Price (territorial general manager, Boots (Western), Ltd.); and many "representatives" of manufacturers. MR. PRICE, who responded to the toast, remarked on the exceptionally high degree of co-operation that existed locally among pharmacists.

## CHEMISTS' GOLFING SOCIETY DINNERS



Diners at the South London and Surrey Pharmacists' Golfing Society's ladies' evening. Standing at rear, right, are the "top table" party.

### South London and Surrey

"THIS is your evening, let no one cheat you out of it," Mr. Marsden Lewis told the ladies present at the third annual dinner and dance of the South London and Surrey Pharmacists' Golfing Society on March 2. He said that, in accordance with tradition, his was to be the only speech of the evening and he had been delegated by the committee of the Society to speak as long as he liked provided he was not on his feet too long. To the ladies was due any success the men might have achieved: "because of the money they make it necessary for us to earn." He paid tribute to the tremendous amount of work done for the Society by Messrs. G. G. Watt (treasurer) and G. G. Jamieson (secretary) assisted by the committee members. Mr. Lewis stated he had been surprised when he arrived that evening to find that the Society's printer and provider (Mr. Jock Whitelaw) had embellished the menu cards with a "Hut" cartoon of him (C. & D., November 7, 1959, p. 399). Mr. Ivor Spencer M.C.'d the proceedings, and a record number of members and their guests danced after the dinner.

### London Chemists' Golfing Society

Now sixty years old, the London Chemists' Golfing Society showed

itself full of youth and vigour when, at Hendon recently, its members and their friends met for the annual dinner and dance. For the president



One of the president's personal guests—a proud and picturesque Scot—and his lady with Mr. R. L. Taylor (president, London Chemists' Golfing Society) and Mrs. Taylor.

(Mr. R. L. Taylor), who was in the chair, it was a birthday occasion, to be honoured during the evening with a cake that was ceremonially carried in, all candles aflame. The president welcomed the guests, and his brother (Captain S. B. Taylor, R.N.) proposed the toast of the Society, the Captain (Mr. E. G. Smith) replying. Trophies and prizes gained during the season were presented by Mrs. Taylor as follows:—Aspro rose bowl: E. H. Elworthy; British and Colonial cup and Johnsons of Hendon prize: Glynne Roberts; Burgoyne cup and Kerfoot trophy: R. M. Pierce-Williams; Butler and Crispe prize: A. H. Newcombe (absent); Captain's prize: G. Smith (absent); Arthur H. Cox prize: H. E. James; D. & W. Gibbs prize: R. Powell (absent); Harker Stagg prize: M. N. Doyle; Hepburn shield: D. C. Warren; Jubilee vase: W. S. Hutcheon (absent); Leichner and Professor Flint cups: R. L. Taylor; McClure Young and Mentholatum prizes: E. G. Nice; Morny prize: A. S. Jerwood; President's prize and putter: E. S. Hole; Sanger cup: H. A. Coward; Scott & Bowe "4711" prize: E. G. Smith; Squibb Centennial trophy: J. A. Bennett; Thomson cup: R. H. Davies; Yardley cup: P. Keddie; Ladies' prize: Mrs. Dawson.



Mrs. A. S. Jerwood with her husband, the secretary of the London Society. At right: some of the golfers and their ladies gather before dinner.



# Correspondence

## Royal Jelly

SIR.—There has been a witch-hunt recently for the facts about royal jelly, but the hunters have shown themselves to be uninformed in a variety of important items and lacking in the essential thoroughness needed to extract the facts and make a true assessment of them. In several ways they have clearly demonstrated how perfunctory their research has been. They say: "We have not carried out tests of our own," and failed to say by whom or what authoritative body the tests were made! Had their tests been properly conducted they would not, for example, have included Pampanyl dragees among their royal jelly products, because Pampanyl dragees contain no royal jelly and it has never been said that they do. Their basic ingredient is pollen, something very different from royal jelly. The fact that royal jelly has been, and still is, the subject of serious and extensive research by doctors and scientists throughout the world is proof positive that its therapeutic properties are not to be so lightly dismissed as the unscientific witch-hunters suggest. It was stated in an article addressed to a national newspaper in May 1959 by a past-president of the Royal College of Surgeons: "We have also been working on experiments with royal jelly, a substance which worker bees produce for their queen and which has come into prominence now that two Canadian scientists are claiming success in protecting mice against four kinds of cancer." (See *Nature*, May 2, 1959.) The chemistry division of Birmingham University, among others, has been engaged and still is, in research on royal jelly, and it was stated in a report issued by them, which again appeared in *Nature* (April 4, 1959) that "the components of royal jelly responsible for its remarkable properties remain unidentified," and "we have recently established that hydroxydecanoic acid constitutes about 15 per cent. of royal jelly." Royal jelly is the only known source of that acid. The *Practitioner* reported in August 1959 as follows: "On royal jelly and leukæmia. In view of the current popular interest in royal jelly it is of interest to note that in a recent issue of *Nature* (1959, 183, 1270) G. T. Townsend and his colleagues report: that a mixture of royal jelly with tissue cells before inoculation completely suppresses the development of a transplantable mouse leukæmia and the formation of ascitic tumours in mice. Fractionation studies have established that this anti-tumour activity resides in the main fatty acid of the royal jelly—10-hydroxydecanoic acid. . . . These results, it is claimed, have been confirmed repeatedly in nearly a thousand mice during a two-year period and 'show a striking effect: either all the mice die or all survive.' Let it be clearly stated that this is not to suggest that the cure for cancer is at hand, but Dr. Townsend is reported to have said, following the publication of his investigations, that 'the most important part of the discovery was that royal jelly is non-toxic.'

Other cures for cancer, he explained, are invariably dangerous to patients." . . . Royal jelly is not a medicine or drug. It is a food supplement. That it will not benefit everyone who might take it is only to be expected. No food or medicine will do that. But it is indisputable that thousands of people have obtained from it real and lasting benefits of an almost miraculous kind, for which they are most grateful. Scientists who are engaged in research on royal jelly agree that much remains yet to be discovered as to its component parts and properties and, whilst they do not emphasise its therapeutic importance, many do state that their investigations may yet reveal astonishingly remarkable results. . . . It must be remembered that only the bees can produce royal jelly and that accounts for its high cost. If psychology plays a part, as some people suggest, then it can in truth be said that much of the doctor's work is psychological, as most doctors would be ready to admit. But psychology cannot play a part in the treatment of dumb animals, and the following reports received from the veterinary officer of an important British society are worthy of attention.

June 24, 1959

"Two spider monkeys belonging to a friend of mine in northern Italy were recognised last year as suffering from osteodystrophia fibrosa cystica. This condition is commonly referred to as 'renal rickets.' The disease is crippling in nature and there is grave deformity of the long bones. I have x-ray pictures of these animals as they were towards the end of last year. When they went abroad to northern Italy, I warned the owners that little could be expected in the way of improvement, and went so far as to make arrangements as to how they should have the animals put to sleep, when it became necessary. I heard from them recently that they had for the last month or so been using royal jelly on both these monkeys. The improvement, they tell me, is staggering in so far as whereas previously neither monkey could walk well and one not at all, they can now get about quite easily.

[The other reports, which relate to a guinea pig and a budgerigar, are similar.—EDITOR.]

To return to the field of human ailments, the following letter received from a doctor in a hospital in the north of England tells its own story:

"I myself took Rezesta-B capsules continuously for fifteen days and certainly experienced a feeling of physical and mental well-being, more pronounced in the morning, having taken the tablets before breakfast. With this preparation one also perceives a tranquillising action. There is also no effect on the gastrointestinal system. My own view is that they are an excellent preparation for the 'run-down' and depressed, although somewhat expensive. I also think that they would be of great value to athletes and sportsmen in any sphere wishing to regain lost form, or reach a 'peak' for a certain event. . . ."

It is recognised by biologists who have for many years been investigating the properties of Royal Jelly, that the beneficial influences of royal jelly are not simply in the known ingredients, but rather in the as yet unidentified ingredient created by the metabolic processes to which they are subjected inside the bee. So far, no amount of analysis has revealed what it is, or the extent of its activities.

TOM HOBSON,  
London, S.W.19

SIR.—Scientists, wholesale and retail pharmacy and the general public will not be impressed by the report on royal jelly preparations in the March issue of *Which?* (monthly official journal of the Consumer's Association, Ltd.). The reference to vitamins in general and the comparison of royal jelly with beer are misleading. Where any claim is made for the presence of vitamins the amounts have to be declared on the label and are there for all to see. If the statement is false the public are safeguarded by our Food and Drug laws. Beer contains a good proportion of two or three, but none of others, whereas Apiderm, the product of my company, provides a reasonable amount of a complete range of vitamins in addition to the basic royal jelly, the claims for which are strongly supported by many scientists of repute throughout the world. The publication of the report by CA on royal jelly is, in our opinion, a great disservice to the scientific effort which continues in the research centres in many countries with a view of improving still further on the outstanding results already obtained from royal jelly. Undisputed clinical evidence in support of claims made for royal jelly is, of course, available for all to see:

(1) Review University Children's Hospital, University Florence, Italy, September 1956, pp. 319-32. The extensive report concludes:

"The authors believe that the determinant factors in the interpretation of the satisfactory results due to the queen bee gelatin in paediatrics are the product's high content in amino-acids, the presence of the growing factor of pantothenic acid and the dynamic and specific action of the product."

(2) The Neurological Clinic in the Hamburg Barmbek State Hospital state upon conclusion of clinical tests and examination of the product, that:

"Clinically, Apiderm has proved to be very effective and valuable, e.g., under conditions of exhaustion and degenerative conditions incident to old age (geriatrics)."

E. B. LINDSAY, Managing director,  
Ernest Lindsay, Ltd., London, E.C.2

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THE part prescription reproduced last week (*C. & D.*, March 19, p. 311) was for:

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Syr. glyceroph. Co. 3*fl. oz.*  
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Sig.: 5*ss* tds. ex aq. p.c.  
Mitte 5*xvi*.

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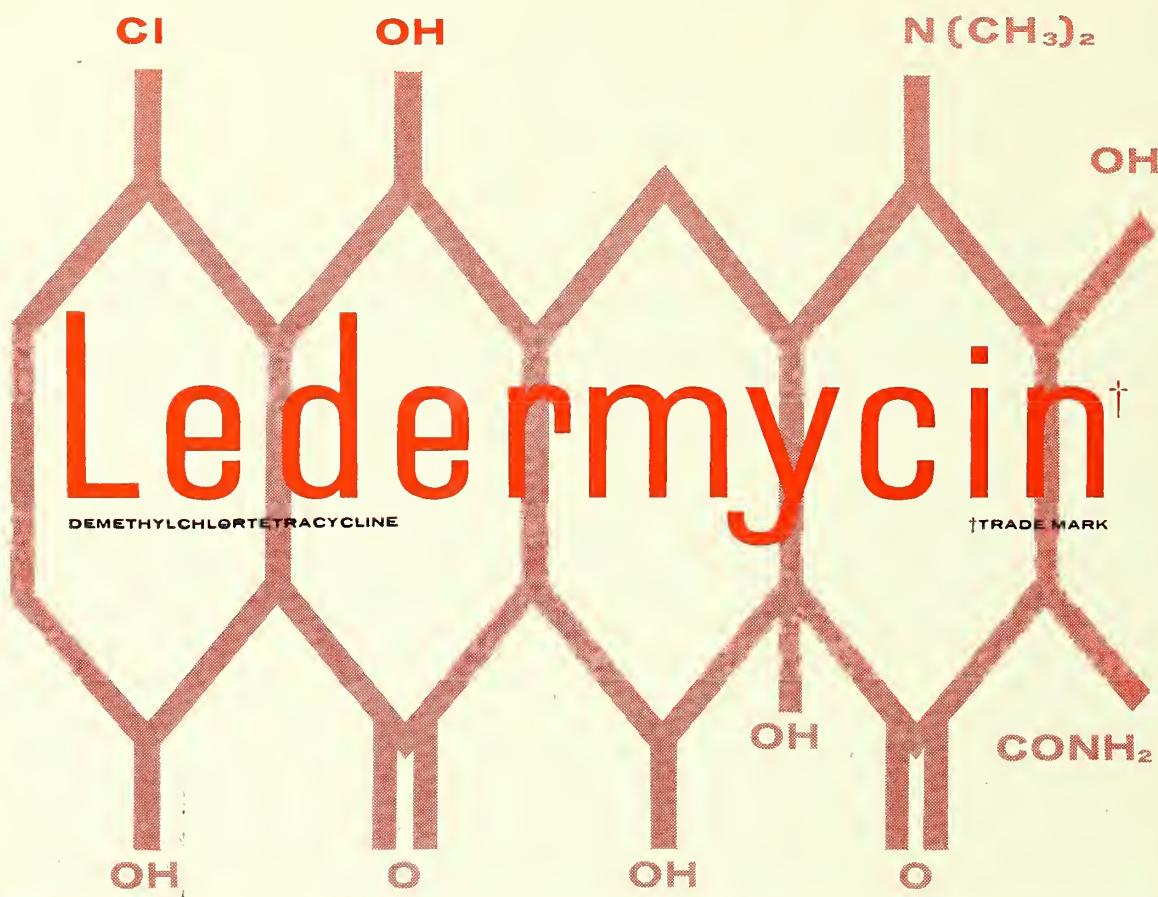
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# The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

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## Wholesaling Trends

To an extent that would have amazed the generality of pharmacists of twenty—even ten—years ago, selling operations in pharmacies are today geared to the services offered and provided by their wholesale distributors. The conditions established by the National Health Service called into existence a new type of wholesale warehouse able to provide quick supplies of "ethicals" for dispensing within a relatively limited area. If current developments in other trades and other countries are any criterion, further changes may be round the corner.

Particularly in the grocery trade there are being applied new techniques, some of which will have effects, if only indirectly, on the retail pharmacist. One such new technique has evolved from the "impulse buying" that is a feature of the modern supermarket. Under it the retailer is encouraged to collect his own requirements from what may be termed "cash and carry" wholesalers. It will be recalled that a descriptive article on a similar development in Australia appeared in the *C. & D.*, December 15, 1956, p. 661. A warehouse of that new kind, opened at Reading on February 1, is stated by a spokesman of the organisation sponsoring it to be one of an eventual three hundred similar units in Britain. Any extension of wholesaling on such a scale cannot but compel attention, especially as each of the warehouses will be distributing not only foodstuffs but those many toilet preparations, which—unfortunately with the active promotion of certain manufacturers—are more and more being bought by the housewife with her groceries and not at the pharmacy where she used to buy them. The warehouse newly opened at Reading is a large single-story building with wide doors for easy entry of goods. Within the warehouse the goods, in their original cases, are arranged on shelves round the walls and on long island sites in the centre. Notices proclaim their locations: "Disinfectants"; "Detergents"; "Cosmetics"; "Medicinal goods" etc. Prices are marked usually by labels affixed directly to the manufacturers' original outers. The purchaser comes in, collects his goods on a trolley, and wheels it to a girl at an adding and listing machine. The trader pays according to the marked prices, and then loads the goods on to his own van or car. Often the prices marked represent a mark-up of only 2-3 per cent. on the price charged by the manufacturer to the wholesaler. The retailer, therefore, in doing for himself some of the things normally done for him hitherto by the wholesaler, receives a part of the wholesaler's

normal profit margin. A noteworthy feature of the Reading enterprise is its hours of business (8.30 a.m. to 5.30 p.m. Monday, Wednesday and Friday; 8.30 a.m. to 9 p.m. Tuesday and Thursday; 8.30 a.m. to 12.30 p.m. Saturday).

As has been said, many items ordinarily stocked by pharmacists are found on the shelves of the cash-and-carry wholesalers. Since those items often carry margins of profit higher than the rates usual in the grocery trade, there is a tendency for those products to be handled in ever greater quantities in both the wholesale warehouses and the retail shops of the grocery trade. That trend can only increase as this new system of wholesaling expands.

Although the greater complexity, slower turnover and generally smaller bulk of most goods sold in the pharmacy by comparison with the range of goods in a grocer's shop may be less conducive to the new wholesaling technique the trend is one that must be carefully watched, both by the retailer and by the wholesaler in pharmacy. To the retailer it may present a menace to his turnover in toiletries. The wholesaler may have to be on guard lest his retail customers find it too convenient to buy their tooth-pastes and hair creams from the "cash-and-carry" wholesaler of another trade.

## A Drug Industry Under Fire

THE battle between the American pharmaceutical industry and a Senate subcommittee under the leadership of Senator Estes Kefauver is not yet over although the hearings have been in progress on and off for three months. The third session reported briefly recently (*C. & D.*, March 12, p. 282) ended after a few days because the subcommittee could not sit while the Senate was in session. It so happened that an important topic (civil rights) was being discussed in the Senate and the sessions were long. As a result the witnesses and subcommittee had to meet early in the morning, before the Senate sessions and from midnight onwards after them. After three days and nights of such proceedings opposition to so unreasonable a demand on witnesses was successful, and the third session, it appears, now stands adjourned.

Throughout the hearings Senator Kefauver has attacked the industry for monopolising the manufacture of the popular drugs, for charging too high prices and for spending too much on distribution and propaganda. The industry has strongly countered every charge but unfortunately has seldom had the publicity in the lay Press that the Senator has had. For instance his allegation that the profits on one company's steroids were 7,000 per cent. (see *C. & D.*, December 26, 1959, p. 577) was quoted extensively in the lay Press in Britain but not the fact that cortisone, which had cost \$200 per gm. a few years previously, had been successively reduced to \$2 per gm., nor that insulin costs only 6 per cent. of what it was priced at thirty years ago. In a country in which "public relations" has been so successfully practised for so long, it would seem that the United States pharmaceutical industry, virile as it has shown itself in the marketing of new products, has some leeway to make up in the "image" it projects in the public mind. Despite the magnitude of its achievements, some of which are outlined on page 346, the industry must recognise, in its dealings with the public, that it is not sufficient that justice should be done: it must also be seen to be done.

## NEW BOOKS

### Resale Price Maintenance and Shoppers' Choice

B. S. YAMEY. Hobart paper 1. *Barrie & Rockliff* for the Institute of Economic Affairs.  $8\frac{1}{2} \times 5\frac{1}{2}$  in. Pp. 48. 3s. 6d.

PROFESSOR Yamey's book has been launched at a moment when, in political and Press quarters, the wind of change is again blowing freshly against the practice of price maintenance. Like his previous study of the subject, it is designed to bolster the theory, so dear to him and some other economists, that price maintenance "inflates costs and prices, restricts choice and obstructs technical progress in retailing," but the bolstering is done by means of academic reasoning far divorced from the realities of trade and industry. Professor Yamey challenges the contention that the production and sale of branded goods are injured when uninhibited price cutting is allowed in retailing, and suggests that studies of the subject "have not yielded a single well-documented illustration of these supposed ill-effects of retail price competition." He may be reminded of the manufacturer who marketed three brands of product, only one of them price-maintained. While the non-protected brands became so price-cut that no retailer would stock them and they disappeared from the market, the price-maintained line continued to sell. Its cost of manufacture dropped in spite of higher wages and costs, and a considerable export trade was built up. He may be reminded also of what happened in the bad old price-cutting days to a famous non-protected effervescent, advertised at 2s. 9d. and sold generally at about 2s., and which, because of that, was the subject of widespread "substitution" which in one recorded instance in one day resulted in twelve successive prospective customers for the product leaving the pharmacy with another effervescent preparation more remunerative to the chemist than the cut-price saline. Professor Yamey dismisses lightly the argument that the uncertainty brought about by prolonged price-cutting may make it difficult or impossible for manufacturers to maintain the quality and continuity of production of their goods. The Lloyd Jacob Committee (which had the advantage of assessing voluminous evidence not available to Professor Yamey) reported that it had no reason to doubt the validity of that argument put to the committee by certain manufacturers, that stable prices were important in maintaining a regular and reasonably prosperous home market for British brands whose reputation was well established in export markets, and of preventing fluctuations or deterioration in their quality. The Committee concluded, therefore, that "the effects of severe price cutting of well-known branded goods may well be harmful to the wider interests of the public." Conditions in British industry and in the national economy have not changed so much during the past ten years that the validity of those arguments is undermined. At the present time the price-cutting in the grocery trade of certain heavily advertised branded products, to which no price restrictions apply, has resulted in the appearance of alternative or "own name" brands which provide for the smaller retailer a reasonable profit margin and are sold to him in preference to the cut-price brands when opportunity occurs. Significant, in view of the present political atmosphere, is Professor Yamey's statement that "However large the reduction in retail prices the abolition of resale price maintenance is certainly not a cure for inflation. The abolition of the practice can be expected to reduce prices over a wide range of goods; but its effect on prices and margins is primarily a once-for-all effect." Professor Yamey, a South African, has been in England since 1947, and his knowledge and experience of the subject on which he pontificates so dogmatically is, it would appear, entirely academic. As against the conclusions he reaches, we prefer those of one of that most eminent of economists, the late Sir Henry Clay, whose paper "Resale Price Maintenance" appeared (after his death) in the December 1954 issue of the *Journal of Industrial Economics*, of which he was an editor and one of the founders. Sir Henry Clay, it has been said, was an economist interested by nature, inclination and experience in industrial affairs and to him there was "behind all the abstraction of economics . . . the reality of the individual human being going about 'the ordinary business of life.'" It is significant that the man who had been president of the National Institute of Economics and Social Research, professor of social economics at the University of Manchester, and economic adviser to the Bank of Eng-

land should have said that resale price maintenance "so far from eliminating competition, tends to break down perhaps the most important traditional limitation of competition. viz., the customary practice in certain trades of applying a uniform mark-up to all sales in the trade and not (as under resale price maintenance) to particular commodities. . . . Constant price is the correlative of constant quality and uniform marks. Variations in price from one shop to another would excite the same doubts and hesitations in the consumer's mind as variations in quality, lead to defection of customers, and obstruct arrangements which are based on a regular flow through the productive process. . . . Uncontrolled individual bargaining among retailers may lead to lower prices to the consumer for a time but if it leads also to irregularity of prices and sales, which deters manufacturers from extending the mechanisation, and other methods of rationalisation, of their processes, it will prevent lower prices in the long run." He concluded that none of the safeguards mentioned as desirable for the protection of the consumer required the prohibition of resale price maintenance. Against those economists, including Professor Yamey, who have recently been so vocal in the anti-price-maintenance campaign it is opportune to set some aspects of the other side of the case as presented by so eminent and practical an authority as Sir Henry Clay.

## PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

### Monthly meeting of Council

THE seal of the Pharmaceutical Society of Northern Ireland was affixed at the March Council meeting to regulations amending the amounts payable in retention fees by members and associates.

The Ministry of Home Affairs memorandum on pharmacy administration for the year ended December 31, 1959, which was before the Council, showed that the number of names on the register on December 31, 1957, 1958 and 1959, respectively, was as follows:

Pharmaceutical chemists, 1,126, 1,165, 1,173;

Superintendents of bodies corporate (Ph.C.): 158, 157, 159;

Registered druggists: 23, 24, 20;

Superintendents of bodies corporate (R.D.): 1, 1, 1;

Apprentices: 360, 266, 204.

Forty-two apprentices qualified by examination as pharmaceutical chemists and were registered as such during the year.

The numbers of licences issued in the same period were:—

Pharmaceutical chemists: 719 (1957), 722 (1958), 739 (1959);

Registered druggists: thirteen (1957), thirteen (1958), twelve (1959).

Of the total number of pharmaceutical chemists' licences issued 213 were to bodies corporate and fourteen to the executors of deceased pharmaceutical chemists. One of the registered druggists' licences was issued to a body corporate.

The Council reappointed the following examiners for the year ending December 31, 1960: Messrs. Y. Heslop-Harrison (botany); R. V. Gotto (zoology); T. L. Bowyer (chemistry); A. C. Stewart (physics). New appointments were: Dr. F. Fish (pharmacognosy); Mr. D. A. Norton (pharmaceutics and forensic pharmacy); with Mr. C. W. Young as internal examiner in pharmaceutics and forensic pharmacy and Mr. I. C. Roddie in physiology.

The Finance Committee's report, presented by the chairman (Mr. J. Gordon) and recommending that accounts totalling £172 18s. 10d. should be passed for payment, was adopted, as was the report of the Education Committee, presented by its chairman (Mr. D. Moore).

Mr. A. Templeton (vice-president) presided over the Council in the absence of the president (Mr. J. Caldwell), who was convalescing from an illness.

The Council also affixed the Society's seal to the certificate of qualification of Patricia Durling.

# Onward from Galen

## A CURRENT CAUSERIE

ALREADY established as an author, the managing director of Yeast-Pac Co., Ltd., who manufacture cosmetic face masks and an acne treatment, Mr. Peter Elstob has produced in "Warriors for the Working Day" a novel based on his experiences with the Royal Tank Corps. The novel is a study of character and circumstance, and incidentally a vivid account of the campaign across Normandy and Germany as seen through the eyes of men in the ranks. Mr. Elstob's first book, "Spanish Prisoner," appeared in 1939. It was material collected as a volunteer in the Spanish civil war, 1936. In conjunction with his business associate Arnold ("Bushy") Eiloart, he also produced in 1959 "The Flight of the Small World," a record of Eiloart's attempted crossing of the Atlantic by balloon.

★

MUCH amusement is reported to have been caused at the annual meeting of the Irish Chemists' Golfing Society in Dublin recently, when the secretary (Mr. J. T. Foley) announced that, among the letters received from the various hotels asked to quote terms for accommodating members on the occasion of their forthcoming annual outing from May 21-26, was an epistle from a reputable hostelry, in the following terms:—

Dear Sir,—Your letter received and thanking you for inquire. I can accommodate you party, I have 17 Twins, 3 Doubles and 8, Single rooms.

Re your dinner, dining roon will seat 150 and I also have ballroom which you can have for any purpse, your party requires.

Re Terms I am quoting you special price for your party 30/- per day (allmeals)

Hoping yo have the pleasure of accommodation and catring for you party.

Yours faithfully,

The hotel's official notepaper bore the imprint "Officially appointed R.I.A.C., A.A., I.T.A., I.T.B." Possibly the manager was away. No prizes are given for the correct

answer to the question: Did the Society accept the booking offered?

★

ON March 26 the Liebig museum at Giessen, Germany, celebrates the fortieth anniversary of its establishment. Justus Liebig was born in Darmstadt in 1803. After studies in Bonn and Erlangen he obtained a scholarship granted by the Grand Duke of Hess. That grant enabled Liebig to continue his studies in Paris. There he met Alexander von Humboldt who, besides introducing him to scientists at the Sorbonne University, later recommended him to the Grand Duke of Hesse: "as one who will be a professor who serves his country well." As a result, Liebig went to the University of Giessen, Hesse, at the age of twenty-one. There being no room for him in the laboratory, he was given a former soldier's watch-room, and there installed a laboratory with four small rooms behind it that were used for the lectures and as store rooms. In 1835 an extension was added in which Liebig secured his own study and laboratory. In 1839 there were added two larger laboratories, a library and an auditorium. Eventually Liebig, whose students numbered twelve at the start, had an audience of 107 and additionally fifty-nine probationers. Early in the present century it was decided that the venerable place in which Liebig gave lectures accompanied by practical experiments—an entirely new technique—should be converted into a Liebig museum. Dr. E. A. Merck fostered the plan and guaranteed the amount of purchase of the property. In December 1909 the equipment and material transferred to the new institute were given to the Liebig Association. Many lost pieces of apparatus were copied from drawings, and other objects were donated by members of the Liebig family, and by descendants of former students and friends. The museum was inaugurated on March 26, 1920, damaged during the 1939-45 war, reopened in the summer of 1952, fifteen members of the Liebig family being present.



STUDENTS OF SIXTY YEARS AGO: Labelled "The last group of the century—'Xmas, 1900,'" the photograph here reproduced is of students of the Westminster College of Chemistry & Pharmacy, Ltd. In the centre of the front row is the principal, Mr. G. S. V. Wills. The names of the students are printed on the mount, and under a statement that "the following were unable to be present when the photograph was taken" there are a further twenty-six names.

# UNITED STATES PHARMACEUTICAL INDUSTRY

## Problems of pricing and distribution ahead

AS the new decade begins, the United States pharmaceutical industry has every reason to expect that the "Golden Sixties" will live up to their name. Despite problems of pricing and distribution—difficulties that are faced by many rapid-growth industries—drug companies have the assurance of supplying an increasing range of vitally needed products to a vast and growing market. The strength of that market was shown during the recent recession, when there were several areas in which a remarkable growth pattern persisted unbroken. For example, from 1948 to 1958, the average annual increase in the output of antibiotics was 25 per cent, and manufacturers' sales of antibiotics in 1958 totalled \$400 millions, an important share of total pharmaceutical business. Sulphonamide drugs and vitamins also proved recession-proof in 1957-58. Manufacturers' sales of pharmaceutical preparations climbed in the ten years 1947-1957 from \$867 millions to \$2,200 millions.

Exports, it is true, have not always been quite so buoyant. As the table shows, these fell off in 1958 and recovery did not come as quickly as had been hoped.

EXPORTS OF PHARMACEUTICAL PREPARATIONS			
Year	Total (£ millions)	To U.K. (£ millions)	U.K. % of total (£ millions)
1955 ... ...	226.5	3.1	1.4
1956 ... ...	245.6	2.5	1.0
1957 ... ...	284.5	3.5	1.2
1958 ... ...	277.7	9.5	3.4
Jan.-Nov. 1958	254.0	9.2	3.6
Jan.-Nov. 1959 ...	259.6	5.2	2.0

Even the exception which seems to be provided by figures of exports to the United Kingdom proves on closer examination to have been a purely temporary phenomenon accounted for by large shipments of the Salk poliomyelitis vaccine. These rose abruptly in 1958 to a total value of \$4.1 millions. Since, moreover, that rise was accompanied by a similar rise in exports to Britain of prednisolone, also a new preparation, the total growth of exports of pharmaceuticals was quite staggering. But British domestic output of those two products is already obviating the need for such imports; in the first eleven months of 1959, U.S. exports of poliomyelitis vaccine and prednisolone to Great Britain were worth only \$1.5 millions and \$1.2 millions respectively, compared with \$4.7 millions and \$1.8 millions in the same period of 1958 which suggests that only a considerable technical lead will pull American exports of pharmaceuticals to Britain above the average level of the years immediately preceding 1958.

### Inhibiting Effect of Controls

United States' export trade with Britain is, of course, inhibited both by economic and by medical controls. The recent relaxations of controls on dollar imports did not extend to pharmaceuticals; a dollar area quota of £200,000 (\$560,000) has been established for imports of pharmaceutical preparations packed ready for retail sale for 1960, and licences are still required for imports of substances such as sulphonamides, antibiotics, hormones, sera, and vaccines from dollar sources. The Ministry of Health also possesses powers to limit or prevent the import of preparations, including vaccines, certain sera, and some antibiotics, which fall under the Therapeutic Substances Act. Those restrictions are not, however, unduly important to United States producers, in view of the smallness of the market which Britain provides for foreign pharmaceuticals.

The manufacture of many different types of penicillin to meet various medical needs should have economic as well as therapeutic results; it will make the industry more fiercely competitive than ever. To meet such challenges, engendered by an active research policy (U.S. pharmaceutical firms spent \$170 millions on research in 1958), a decided expansion of facilities is expected in 1960. A recent McGraw Hill survey on business plans for capital expenditure showed that, while U.S. business in general plans a 10 per cent. increase in new plant and equipment this year, the chemical and allied products industry will increase its investment by 24 per cent. from \$1,188 millions in 1959 to \$1,473 millions in 1960, with a further increase to \$1,502 millions expected in 1961.

### Distribution Problems

The distribution problems brought to wholesalers and retailers by a greater number of products and a growing population are similar to those of other industries, and the plaints of the National Wholesale Druggists' Association sound remarkably like those of many established distributors of durable consumer goods a decade or so ago when discount stores first blossomed out in that field. At a N.W.D.A. meeting recently there was vigorous denunciation of the "short-line" wholesalers who carry only the fast-moving items, since by the rapid turnover of such goods they are able to offer better terms to retail shops, and so skim the cream from the market. It was stated that a regular wholesaler, in order to supply independent pharmacists with a complete range of products, has to carry close to 27,000 items, types and sizes, of which less than 12,000 move at all in any sixty days. With more and more products coming out, the turnover rate of N.W.D.A. members has dropped to 5.67 times annually, and there is concern that the "unsound" policy of maintaining such large inventories may become impossible if "short-line" wholesalers gain much of a footing in the market. Again, drug wholesalers share with wholesale firms in general in the U.S. today the problem of special discounts to large accounts, discounts which the N.W.D.A. believes discriminate against most customers. Nor can wholesalers fail to be affected by the increase of direct selling by manufacturers. That is a two-pronged evil since it both by-passes the distributor and gives the manufacturers a reason for cutting his discounts to wholesalers, on the grounds that their services are not worth the profit previously allowed.

The Supreme Court a few weeks ago struck at the industry's fight against retail price-cutters by rejecting a lower court's dismissal of a government anti-trust complaint against Parke, Davis & Co. The company had been charged with violating the anti-trust law in 1956 by maintaining fixed retail prices for its specialities. Having warned those retailers who had been price cutting that supplies would be withheld, Parke, Davis representatives visited all the wholesalers in the area and asked them not to supply the offending retailers otherwise supplies would be cut off to them as well. By a majority the court ruled that that type of enforcement technique was illegal. One of the dissenting judges said that the verdict had killed a forty-year-old trust doctrine laid down by the high court in the Colgate case. [The court in that case ruled that a manufacturer had the right to pick his own customers.] In the present case the majority argued that manufacturers have not lost the right to make "a simple refusal to sell to customers who will not resell at suggested prices" but that Parke, Davis had gone beyond that point.

On the retail level, the American chemist's shop, despite a bewildering proliferation of items from frying pans to frozen foods that would seem to leave no space or time for dispensing medicines, is doing more drug business than ever. Two decades ago, in 1939, prescription volume of \$165 millions accounted for 11 per cent. of their total business; by 1949 it had reached 16 per cent. (\$611 millions) and in 1960 may total 28 per cent. (\$2,000 millions), and there are predictions that it will grow to \$2,750 millions in 1965 and \$5,000 millions in 1975. The growth in prescription volume beyond the other sales was shown in the January-August 1959 sales figures for U.S. chemists' shops. Those showed a 10.1 per cent. gain in prescription income compared with a 6.3 per cent. gain in income from other items. By no means all of that was due to price increases: the average prescription cost of \$2.79 was only 1.5 per cent. above the January-August 1958 average cost of \$2.75.

The increasing variety of pharmaceutical items is imposing an unremitting pressure on the retailer, who must find stock space for a growing inventory, the capital or credit to finance it, and merchandising space for the store traffic caused by a rising population. He must also, like most retailers, cope with intense competition, not only from other drug stores, but from supermarkets, cut-raters, door-to-door salesmen, direct mail sales, department stores, discount stores, and the ubiquitous shopping centre. None of those competitors can dispense prescriptions—but 72 per cent. of the druggist's business does not come through prescriptions.

To return to the 28 per cent. of his business that concerns the pharmaceutical industry, the entire drug trade in the U.S.—both on the retail and manufacturing side—is now facing a severe problem over prices, that may be loosely described as one of public relations. The amount of money that Americans spend on "drug preparations and sundries" is steadily climbing; it rose nearly 14 per cent. from 1956 to 1958.

U.S. MEDICAL COSTS	1956	1957	1958
	(\$ million)	(\$ million)	(\$ million)
Total personal consumption spending ... ... of which:	269,917	284,756	292,956
Medical care and death expenses ... of which:	15,396	16,644	17,826
Private hospitals, sanatoria ...	3,524	3,880	4,319
Physicians ...	3,512	3,741	3,901
Medicines, sundries ...	2,869	3,062	3,261

Since relatively expensive antibiotics are now prescribed for illnesses, instead of the mild alleviating drug of ten years ago the comparison in cost is not, therefore, the same as in the ordinary cost-of-living, as for example, between a pair of shoes today and their cost ten years ago, but rather between an out-dated treatment and a modern one that restores health much more quickly. But the consumer pays little heed to that argument, or, for that matter, to the statement by the drug companies that their high research costs and the quick obsolescence caused by newer drugs make it imperative for them to recover their investment in a short time so as to have funds for further research. The public's inattention is in part due to the fact that illness is a generally unpleasant business, made worse by the attendant expenses, and in part due to the growth of health insurance schemes. Now that hospital bills, and in many areas physicians' bills as well, are partly or wholly covered by insurance, the drug costs loom in isolation. One observer has suggested that they represent not so much a financial burden as a psychological burden for the average patient.

### Criticisms From Two Sides

It is an isolation that is very uncomfortable, and has put the industry under a barrage from government and consumer groups. The New York state legislature in October 1959 held hearings on introducing a prescription drug insur-

ance scheme, at which a representative of the New York Consumers' Council accused the drug companies of beginning to dominate the practice of medicine and retail pharmacy. He said that prescription insurance could not work unless prices were lowered, and stated that the state should control drug prices much as it regulates other necessary public services such as car insurance and the public utilities.

Readers of the reports in the CHEMIST AND DRUGGIST of the present Kefauver hearings will agree that that spectre of government control is still much alive.

The legal difficulties of the industry, which have contributed to their public relations problems, were cleared somewhat at the end of November 1959 when the criminal conspiracy case brought by the government against five manufacturers of Salk vaccine was thrown out of court before the defence even had to present its side. The government had charged them with fixing prices on the sales of \$53.6 millions worth of vaccine to national and local health agencies; the trial judge found that there was only circumstantial evidence, suspicion, and conjecture, but no proof. However, a second government proceeding, a hearing before the Federal Trade Commission in New York where five companies were accused of conspiring to prevent competition in broad-spectrum antibiotics, and the television quiz show scandal (in which the pharmaceutical industry figures because of its sponsorship of some of the programmes) have been setbacks for the industry in terms of the bad Press it received. Thus, one of the chief problems of the U.S. pharmaceutical industry at the start of a new decade is not that of markets or products, but of public relations.

### LECTURES IN PHARMACY

#### PRESERVING VEGETABLE DRUGS

By William Cullen, M.D., *circa 1760*

THE means of avoiding fermentation may be reduced to the five following Heads:

1. By avoiding moisture
2. By avoiding stagnant air
3. By avoiding too great degrees of heat or cold
4. By avoiding insects
5. By applying antiseptics

Firstly, by avoiding moisture. After the moisture of vegetables is expelled, by the methods before delivered, we must prevent a further absorption from the atmosphere. That is done by putting them into a vessel as much heated as is consistent with the safety of the matter, and then closed accurately. The heat is applied because the vessels then contain less air than they otherwise would do, which is always hurtful to dried matters, as it promotes fermentation.

Secondly, by avoiding the action of External and Stagnant air. For this purpose we must either keep the matters in closed vessels, or if they are inconvenient, we may cover them over with a powder, as Meal, Ashes, Sand, &c. These will defend them from the air; for though air be a subtle fluid, yet on Account of its repellent powers, it pervades Bodies less perhaps than any fluid whatever—hence the practice of preserving eggs with a covering of meal or by smearing them with grease, and of preserving fluids by covering their surface with oil—I have heard of an old Woman at Cambridge who made a fortune by preserving her Butter fresh in Meal.

Thirdly, by avoiding too great heat or cold. At a certain distance below the surface of the Earth, there is always an Uniform Temperature, independent of the changes which happen in the external Atmosphere. This takes place in a great measure even in our common cellars, which are therefore very fit repositories for the matters which are to be defended from heat or cold.

If we have not the convenience of subterraneous repository, our intentions may be nearly answered by covering the matter two feet with sand or ashes.

It may seem a paradox that cold should promote fermentation, since we have declared that fermentation cannot go on in a lesser degree of heat than 40°, but I mean such a degree of cold as will freeze the body, because in freezing, the fixed air is expelled with such violence as sometimes to break our vessels—this destroys the Texture of the Matter in escaping, and so induces fermentation when it is Thawed.

# BRANCH REPRESENTATIVES' AGENDA

## Amendments accepted for discussion

SINCE the agenda for the Branch Representatives' meeting on May 19 (see *C. & D.*, January 23, p. 90), was issued several proposed amendments have been accepted for consideration. The motions concerned, together with amendments, are given below.

### BIRMINGHAM

That it is the opinion of this meeting that all manufacturers and suppliers of drugs should print metric and imperial doses on their labels together with the Poisons Schedule where relevant.

*Amendment:*

Delete full stop and add " and that the official symbol G for gramme be universally adopted." (*West Hertfordshire*.)

### BLACKPOOL

2. That it is the opinion of this meeting that the regulations governing the sale of Part II poisons should be amended, either to restrict the sale entirely to pharmacists or to put them in a similar position to listed sellers by permitting unqualified persons appointed by pharmacists as deputies to effect the sales of such poisons without supervision.

*Amendment:*

That the word "either" be deleted, and the motion be terminated after "entirely to pharmacists." (*Portsmouth*.)

### CARDIFF

That it is the opinion of this meeting that the Pharmaceutical Society of Great Britain should initiate an Associateship of the Society to which graduates in pharmacy, who are not Members of the Society would be admitted. Associateship would not be a statutory qualification.

*Amendment:*

Delete full stop and add " or carry any voting rights. It would be secured by payment of a reduced fee." (*West Hertfordshire*.)

### LEICESTER

That it is the opinion of this meeting that the Council of the Society should consider the appointment of public relations consultants to work with the Publicity Committee, and that a publicity campaign should be started as soon as possible (a) to influence public opinion concerning the place of the pharmacist in the National Health Service, and (b) to educate the public to regard the retail pharmacist as the only safe and qualified source of all their medicinal requirements.

*Amendment:*

That in part (b) of this motion, the word "retail" be deleted. (*Portsmouth*.)

### NORTH STAFFORDSHIRE

1. That it is the opinion of this meeting that the manufacture and distribution of medicines containing poisons whether for human or animal consumption should be under the control at all stages of a pharmacist or a member of another professional body, and furthermore a register of authorised wholesalers should be compiled.

*Amendment:*

Omit the words "or a member of another professional body." (*Croydon*.)

### PORTRUSH

3. That it is the opinion of this meeting that the Society should continue to press for complete abolition of purchase tax on medicines.

*Amendment:*

Delete full stop and add "which are not advertised to the public." (*West Hertfordshire*.)

### READING

1. That it is the opinion of this meeting that the Council of the Pharmaceutical Society is not fully aware of the serious plight of retail pharmacists who have advertised for help without result and that the new examination syllabus is driving students away from retail pharmacy and that a new diploma designed for retail requirements is overdue.

*Amendment:*

That it is the opinion of this meeting that the limitations of the present syllabus render the Ph.C. diploma an inadequate.

quate preparation for general practice. The Council of the Society should immediately rectify this position as its continuance must be detrimental to the future of the majority of its members. (*Cornish*.)

2. That it is the opinion of this meeting that the meetings of the Council of the Pharmaceutical Society should be more fully reported in *The Pharmaceutical Journal* together with the names of proposers, seconds and voters for and against any motions.

*Amendment:*

Substitute "That a full verbatim report of Council meetings be published separately and issued to all branch secretaries, and made available to all members of the Society at a prescribed fee." (*Birmingham*.)

### SHROPSHIRE AND MONTGOMERYSHIRE

That it is the opinion of this meeting that C.N.S. drugs should be scheduled as Part I poisons.

*Amendment:*

For "scheduled as Part I poisons" substitute "listed as Schedule 4 poisons." (*Croydon*.)

## CHEMICAL ANALYSIS IN MEDICINE

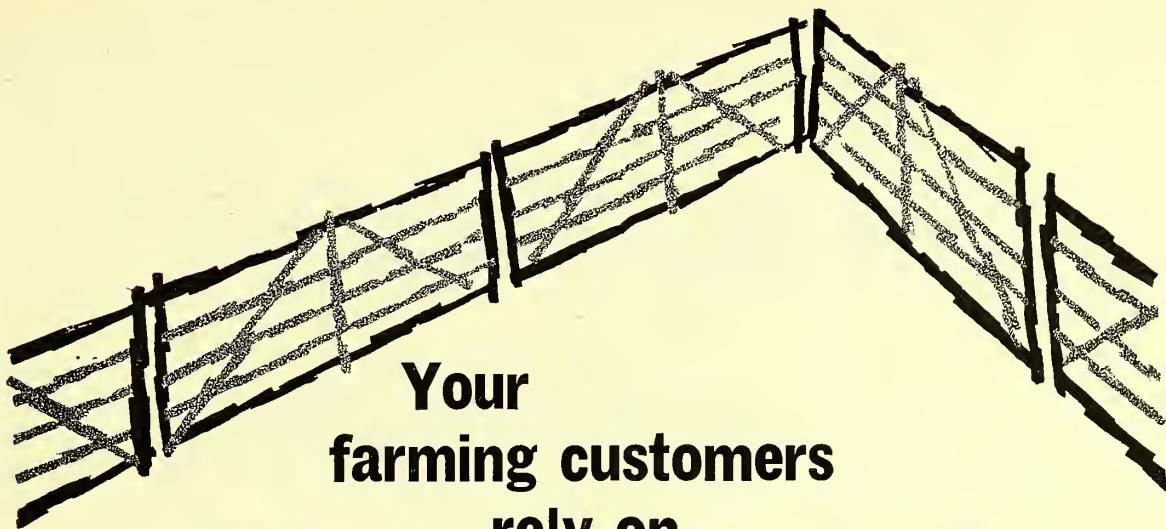
### Bernard Dyer Memorial lecture

AT a meeting of the Society of Chemical Industry in Birmingham recently the sixth Bernard Dyer Memorial lecture was given by Professor A. C. Frazer (professor of medical biochemistry and pharmacology), University of Birmingham. The theme was the application of chemical analysis in medicine, and Professor Frazer dealt specially with problems he and his colleagues had studied over a number of years on patients with defective absorption from the small intestine. One symptom of the defect was steatorrhœa—the passage of fatty stools—and as a general index the long-chain fatty acids in the stools were determined, first by iodine values and melting points, and later by vapour-phase chromatography. The determinations showed a stearic acid content proportionately much higher than in any known natural fat, and the use of fats labelled with isotopic carbon or radioactive halogens to study the source of the long-chain fatty acids indicated that most of the patients had a defect of long-chain fatty acid absorption from their diets. In certain patients with tropical sprue the increase in faecal fat appeared to depend on the intestinal flora, and a dramatic and permanent reduction resulted from administering antibacterial agents. Chemical studies alone were not sufficient, and biological factors had to be studied when the extra fat was shown to be derived from the diet. The intestinal lumen was studied by intubation. Absorption rates were determined and radiographic investigations and biopsies were carried out. Some cases were shown to be due to faulty emulsification of the fat in the intestinal lumen; in others the small intestine functioned abnormally because of secondary water and electrolyte im-

balance. Replacement therapy could be life-saving. Sodium and potassium could be determined rapidly by flame photometry. Calcium, iron and magnesium also were important, and the recent extension of flame photometry to calcium and magnesium was expected to produce further information.

When the secondary complications had been corrected, it was possible to study the basic absorptive defect and Professor Frazer discussed one such study, gluten-induced enteropathy. An observation in Holland that during a wheat famine coeliac children began to look better had led to the discovery that wheat gluten was the basic cause of coeliac disease in children and of steatorrhœa in adults. Untreated flour, or gluten made from it, and flour treated with oxidising agents, had the same effect. Peptic/tryptic hydrolysis of the gluten autoclaving the hydrolysate and subsequent ultrafiltration did not reduce the activity. Eventually it was shown that the deleterious agent was a relatively small, heat-stable molecule which normally enzymes rendered harmless. The enzymes appeared deficient in patients with gluten-induced enteropathy, though that had not been directly proved.

Such problems illustrated the vital part played by chemical analysis in differential diagnosis, therapeutic control and the investigation of pathogenesis. Speedy methods of analysis were of value because, with a deteriorating patient, one could not wait for results, and serial studies were virtually impossible by slow methods. Precise methods such as vapour-phase chromatography, enabled problems to be studied at molecular level. Direct were preferable to indirect investigations.



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## TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods in stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, MARCH 23: The main feature of the CRUDE DRUGS market during the week was again provided by Brazilian MENTHOL. After being steady for two weeks or so, prices advanced a further one shilling per lb. to make the in-bond rate 53s.

BUCHU was being offered on the spot at 3s. 6d. per lb. against 3s. 9d. recently; also lower by threepence per lb. were Para TONQUIN BEANS. SAFFRON at 142s. 6d. was easier by 5s. Sellers of QUILLIAIA were asking 115s. per cwt. for the whole bark (against 110s. recently). In AROMATIC SEEDS Indian DILL was reported short on the spot with business done at 100s. per cwt. CELERY was quoted at 145s., but sellers were inclined to accept bids under that figure.

While spot rates of ESSENTIAL OILS were unchanged, there were three minor adjustments in the forward position. Lower were LEMONGRASS by three-halfpence per lb. and Madagascar CLOVE LEAF by twopence-halfpenny. On the other hand Ceylon CITRONELLA was nominally three-halfpence dearer.

In PHARMACEUTICAL CHEMICALS the new price structure for POTASSIUM IODIDE, BISMUTH SALTS and QUININE announced in last week's report was followed by more manufacturers.

## Pharmaceutical Chemicals

BARIUM SULPHATE.—B.P., 250-kilo lots, 3s. 3½d. per kilo.

BENTONITE.—B.P. about £70 per ton.

BENZOIC ACID.—One-cwt., 2s. 11½d. per lb.; and SODIUM SALT, 2s. 9½d. per lb.

BENZYL BENZOATE.—B.P. in 1-ton lots, 4s. 6d. per lb.

CALCIUM SUCCINATE.—10s. 6d. to 12s. per lb., as to quantity. SUCCINIC ACID is from 10s. 6d. to 12s. 3d. per lb.

CHALK.—Prepared powder B.P., £22 per ton for minimum 1-ton ex works.

CHLORAL HYDRATE.—One-cwt. lots, 4s. 3d. per lb.

CHLOROBUTOL.—28-lb. lots, 10s. per lb

CHLOROFORM.—1-cwt. lots in winchesters, 3s. 4½d. per lb.; 56-lb., 3s. 6d. In drums, 3s. 2d. and 3s. 2½d. per lb. respectively.

CHLOROXYLENOL.—B.P., 5s. 5d. per lb. for 1-cwt. lots; 5s. 1b. for 1-ton.

CITRATES.—Per lb.:

	1 cwt.	5 cwt.
	s. d.	s. d.
SODIUM†	2 8½	2 7½
POTASSIUM†	2 11½	2 10
IRON AND AMMONIUM*	3 7½	3 6

†Powder 3d. per lb. more. \*Scales 10d. per lb. more.

CITRIC ACID.—Domestic material (in kegs) per cwt. 1-4-cwt. lots, 198s. per cwt. 5-cwt., 195s. In paper bags, 5-cwt. lots are 188s. 6d.

COCAINE.—16-oz. lots, HYDROCHLORIDE, 91s. 6d. per oz.; ALKALOID, 101s. per oz. Subject to D.D.A. Regulations.

CORTISONE.—One-kilo lots, ACETATE, 10s. 6d. per gm. HYDROCORTISONE, ACETATE or ALCOHOL, 11s. per gm.

CREAM OF TARTAR.—Home trade:—1-ton lots, 241s. per cwt.; 10-cwt., 242s.; 5-9-cwt., 243s.; 2-4-cwt., 244s.; 1-cwt., 245s. (If supplied in bags deduct 5s.).

CREOSOTE.—B.P. quality, ex beechwood, from 6s. 9d. to 7s. 6d. per lb.

CRESOL.—B.P. quality, 7s. 9d. per gall. in 5-gall. lots.

GLYCEROPHOSPHATES.—Per lb. in 1-cwt. lots:—ACID, B.P.C., 20 per cent., 4s. 7d.; CALCIUM, soluble, B.P.C., 12s.; IRON, B.P.C., scale, 15s. 9d. and powder, 14s. 9d.; MAGNESIUM, soluble B.P.C., 14s. 3d.; MANGANESE, B.P.C., 27s.; POTASSIUM, 50 per cent., B.P.C., 3s. 9d. and 75 per cent., B.P.C., 5s. 6d.; SODIUM, 50 per cent., 2s. 7d.; 75 per cent., 4s. 6d.; 100 per cent., 8s.

GLYCRRHETINIC ACID.—Per gm., 2s. 3d. HEXOBARBITONE.—25-kilo lots or over, 115s. per kilo.

HOMATROPINE.—16-oz. lots (per oz.): ALKALOID, 30s. 6d.; HYDROBROMIDE, 24s. 6d.; HYDROCHLORIDE, 28s. 6d.; METHYLBROMIDE, 25s. 6d. 1-oz. rates are 1s. 6d. per oz. above those rates.

HYDROCYANIC ACID.—Dilute B.P.C., from 3s. 2d. to 4s. per litre, as to quantity; Scheels from 3s. 10d. to 4s. 9d.

HYPOPHOSPHITES.—Per lb.:—

	7 lb.	28 lb.	1 cwt.
	s. d.	s. d.	s. d.
CALCIUM, B.P.C. . .	6 9	6 4	5 11
IRON, B.P.C. . .	13 9	13 3	12 9
MAGNESIUM . . .	11 6	11 1	10 8
MANGANESE, B.P.C. .	13 11	13 5	12 11
POTASSIUM, B.P.C. .	9 3	8 10	8 5
SODIUM, B.P.C. . .	7 7	7 2	6 9

ISOPRENALENE SULPHATE.—(Per gm.), 100-gm. lots, 1s. 6d.; 500-gm. 1s.; 1-kilo, 9d.

LACTATES.—CALCIUM, B.P., 2s. 3d. per lb. in 5-cwt. lots and 2s. 4d. in 1-cwt. lots; CALCIUM SODIUM, 4s. 9d. and 4s. 10d. per lb.

LACTIC ACID.—B.P. 4s. 5d. per lb. for 12-winchester lots and 4s. 4d. for 5-cwt. lots.

LACTOSE.—B.P., in 1-ton lots packed in 1-cwt. paper-lined sacks, £129 10s. per ton, delivered in the United Kingdom.

METHYL PHENOBARBITONE.—B.P.C., 95s. per kilo for less than 25-kilo lots.

METHADONE.—Subject to D.D.A. 16s. 3d. per 5 gm. pack.

OPIATES.—Home trade prices (per oz.) subject to D.D.A. Regulations:—

	35 oz. and over	Under 35 oz.
	s. d.	s. d.
CODEINE		
PHOSPHATE . . .	41 0	42 0
HYDROCHLORIDE . .	47 3	48 3
SULPHATE . . .	47 3	48 3
ALKALOID . . .	54 0	55 0
MORPHINE		
ACETATE . . .	50 0	51 0
HYDROCHLORIDE . .	50 0	51 0
SULPHATE . . .	50 0	51 0
TARTRATE . . .	60 0	61 0
ALKALOID . . .	61 3	62 3
ETHYL MORPHINE		
HYDROCHLORIDE . .	54 0	55 0
ALKALOID . . .	63 3	64 3
DIAMORPHINE		
HYDROCHLORIDE . .	54 9	55 9
ALKALOID . . .	59 9	60 9

PENTOBARBITONE.—Under 25-kilo lots, 125s. per kilo; SODIUM, 130s.

PETHIDINE HYDROCHLORIDE.—Subject to D.D.A. Regulations, 229s. 2d. per 250 gm.

PHENOBARBITONE.—Spot rate 50-kilo lots, 47s. 6d. per kilo; 5-kilos, 50s. 6d.; 500-gm., 54s. 6d. SODIUM SALT unchanged at 55s. 6d. per kilo for 5-kilo lots.

PHENOLPHTHALEIN.—One-cwt. 9s. per lb.

PILOCARPINE.—In 2-kilo lots prices are: HYDROCHLORIDE, 1.013s. per kilo; NITRATE, 825s.

SANTONIN.—5-kilo lots, 400s. per kilo (11s. 4d. per oz.).

STRYCHNINE.—Per oz.; ALKALOID, crystals 10s. 6d.; HYDROCHLORIDE, 10s. 6d.; SULPHATE, 9s. 6d.; all for 100-oz. lots.

SULPHACETAMIDE.—One-cwt. lots, 24s. 6d. per lb. SODIUM derivative, 30s.

SULPHAGUANIDINE.—One-cwt. lots, 11s. per lb.

SULPHANILAMIDE.—One-cwt. lots, 6s. per lb.

SULPHAPYRIDINE.—Five-kilo lots, 120s. per kilo.

SULPHATHIAZOLE.—One-cwt. lots, 16s. 9d. per lb.

SULPHUR.—(Per ton in 1-ton lots), B.P. PRECIPITATE, £112 10s.; SUBLIMED, B.P. £47 10s.; POWDER, 100 mesh, £25 10s.

TARTARIC ACID.—10-cwt. lots, 200s. per cwt.; 5-9 cwt., 302s.; 2-4 cwt., 304s.; 1-cwt., 305s.

UREA.—Pharmaceutical grade, £60 10s. per ton in 1-cwt. bags non-returnable; technical quality, £42 per ton (4-ton lots).

## Methylated Spirit

METHYLATORS' rates per bulk gall. in Great Britain are as follows:

Industrial Methylated spirit: Strength 61 o.p., 500 gall. and over, 5s. 8½d.; 100 gall. and under 500 gall., 5s. 1½d.; 40 gall. and under 100 gall., 6s. 3d.; 10 gall. and under 40 gall., 6s. 8½d.; 5 gall. and under 10 gall., 7s. 2d. Strength 64 o.p., ½d. per gall.; 66 o.p. (B.P.), 1d.; 68 o.p., ¾d. more than the above rates with 74 o.p. at 6s. 6d.; 6s. 9d.; 7s. 0½d.; 7s. 6d. and 7s. 11½d. for similar quantities. Tank wagon delivery is 2d. per gall. off list price—minimum, 500 gall. For industrial methylated spirit of standard toilet quality prices are from 7s. 0d. (tank wagon) for 500 gall. to 8s. 7½d. for 5-10 gall. (in drums) for 64 o.p.

Pyridinised industrial methylated spirit: Strength 66 o.p., 500 gall. and over, tank wagon delivery, 5s. 11d.; 100 gall. and under 500 gall. (in drums), 6s. 4d.; 40 gall. and under 100 gall., 6s. 7½d.; 10 gall. and under 40 gall., 7s. 1d.; 5 gall. and under 10 gall., 7s. 6½d.

Mineralised methylated spirit: Strength 64 o.p. in one delivery, 100 gall. and under 500 gall., 6s. 4d.; 40 gall. and under 100 gall., 6s. 7½d.; 10 gall. and under 40 gall., 7s. 1d.; 5 gall. and under 10 gall., 7s. 6½d.

Terms:—Deliveries free and carriage paid on returned empties; net cash.

## Alcohol

BRITISH SPIRIT per proof gall.:—

Ethyl Alcohol: (95 per cent. Gay Lussac, 66 o.p.); where the number of proof gall. taken over any one year ended March 31 is 300,000 or over 3s. 10½d.; 200,000 to 300,000, 3s. 11½d.; 100,000 and less than 200,000, 3s. 11½d.; 50,000 and less than 100,000, 3s. 11½d.; 10,000 and less than 50,000, 4s. 0½d.; 2,500 and less than 10,000, 4s. 0½d. Prices are exclusive of duty and are for tank wagon lots. In 40-gall. drums there is a surcharge of two-pence per proof gall.

Absolute Alcohol, 95·5 per cent., 74·5 o.p. from 4s. 2½d. to 4s. 4½d. for same quantities; the special high strength (99·9 per cent., 75·2 o.p.) from 4s. 4½d. to 4s. 6½d. Doubly Rectified Alcohol (S.V.R.) 95·8 per cent., 68 o.p., from 4s. 0½d. to 4s. 2½d.; and P.I. Rectified Alcohol, 96·1 per cent., 68·5 o.p., 4s. 1½d. to 4s. 3½d. R. R. Absolute Alcohol (re-rectified), 99·7 per cent., 75 o.p., 14s. 6d. per bulk gall. net.

Duty is £10 12s. 4d. per proof gall.

## Crude Drugs

ACONITE.—Spot: Spanish *napellus*, 2s. 6d. per lb.

AGAR.—Kobe No. 1, 14s. per lb., in bond; shipment, 13s. 9d. c.i.f.

ALOES.—Cape primes, spot, 180s. per cwt. quoted; shipment, 172s. 6d. c.i.f. Curaçao, 500s., spot.

BALSAMS.—Per lb.:—CANADA: Spot, 22s. COPAIBA: Para from 7s., duty paid. PERU: Spot 9s. 6d. in bond. TOLU (genuine as imported): spot cleared, shipment not offering; B.P., 14s. 3d.

BELLADONNA.—LEAVES (t.a. 0·6 per cent.), 2s. 9d. per lb. Dutch for shipment, 2s. c.i.f. Root cleared on the spot.

BENZOIN.—Sumatra block, spot £22 to £30 as to quality.

BUCHU.—Spot rounds, 3s. 6d. per lb.; shipment, 3s., c.i.f.

CALABAR BEANS.—Spot, 2s. per lb.

CALAMUS.—Root, 1s. 2d. per lb., c.i.f.

CALUMBA.—Root, 100s. per cwt., spot; 87s. 6d., c.i.f.

CAMPHOR.—B.P. powder, 3s. 7½d. per lb. in bond.

CAPSICUMS.—East African nominally 175s. per cwt.

CARDAMOMS.—Aleppy greens, spot, 15s. per lb.; prompt shipment, 14s. 3d., c.i.f. Seeds, shipment, 21s. 6d., c.i.f.

CASCARA.—Shipment, 275s. per cwt., c.i.f.; spot, 295s.

CASSIA.—*Fistula*, 115s. per cwt., spot.

CHERRY BARK.—Thin natural, 1s. 6½d. per lb.; rossed, 1s. 11d.

CINNAMON QUILLS.—Shipment (c.i.f., per lb.) 4 O's, 6s. 13d.; 3 O's, 5s. 11d.; O, 5s. 5½d.; quillings, 3s. 4½d.; featherings, 1s. 10½d.

CLOVES.—Zanzibar spot, 2s. 9d. per lb.; shipment, 2s. 5d., c.i.f.

COCILLANA.—Bark, 2s. per lb., spot.

COLOCYNTH PULP.—Spot, 2s. 6d. per lb.

DIGITALIS.—*Purpurea* for shipment, 1s. 2½d. to 2s. 6d. per lb., c.i.f., as to test.

ELEMI.—Spot from 1s. 10½d. per lb., shipment, 1s. 7d., c.i.f.

ERGOT.—Portuguese, 5s. per lb., c.i.f.; spot, 5s. 6d. East European not offering.

FRANGULA.—Spot, 105s. per cwt.

GENTIAN.—Spot: French, 155s. per cwt.

GINGER.—African, 140s. per cwt. spot; March—April shipment, 125s., c.i.f. Jamaican No. 3, spot, 240s. Cochin, March shipment, new crop, 145s., c.i.f.

HENNA.—Indian, spot, 95s. per cwt.; shipment, 62s. 6d., c.i.f.

ÍPECACUANHA.—Matto Grosso, 53s. to 55s. 6d. per lb., c.i.f., as to position; Colombian, 54s., c.i.f., March. Spot Colombian, 55s. 6d.

JUNIPER BERRIES.—Italian 90s. per cwt., spot.

KARAYA.—No. 1 gum, spot 260s. per cwt., No. 2, 230s.

LANOLIN.—ANHYDROUS, B.P. is from 170s. to 175s. per cwt. in 1-ton lots and HYDROUS, B.P., 150s., free drums, delivered.

LEMON PEEL.—From 2s. 6d. to 3s. 6d. per lb.

LINSEED.—Whole, 85s. per cwt.; crushed, 110s.

LIQUORICE.—Natural root: Persian on the spot, 46s. 6d. and Russian 70s. per cwt. Block juice: Anatolian from 190s. per cwt.; Italian stick from 310s. to 470s. per cwt.

MENTHOL.—Chinese, 67s. 6d. per lb., duty paid as to seller; shipment not offering. Brazilian, 53s., in bond; 53s., c.i.f.

NUX VOMICA.—Scarce. Shipment, nominal.

ORRIS ROOT.—Florentine, 340s. per cwt.

PAPAIN.—Tanganyikan, 14s. 6d. per lb., c.i.f., for grade one, spot, 17s. Ceylon, No. 1 white, 14s. 6d., c.i.f.: brown, 13s., c.i.f.

PEPPER.—White Sarawak spot 5s. 9d. per lb.; shipment, 5s. 6d., c.i.f. Black Sarawak, 4s. 3d., spot and 4s. 1d., c.i.f. Black Malabar, 475s. per cwt. spot and 445s., c.i.f., shipment.

PEPPERMINT LEAVES.—Dutch whole, 1s. 11d. to 2s. 7d. per lb., c.i.f.

PIMENTO.—Spot, 590s. cwt. nominal; shipment, 540s., f.o.b.

PODOPHYLLUM.—*Emodi*, 200s. per cwt. spot, and 185s., c.i.f., for shipment. *Peltatum*, spot value, 375s.

PYRETHRUM.—Extract, minimum, 25 per cent. w/w pyrethrins, 75s. per lb. for small lots.

QUASSIA.—Spot, 50s. to 52s. 6d. per cwt., ex wharf.

QUILLIA.—Spot whole bark, 115s. per cwt.; crushed, 150s. Whole for shipment, 97s. 6d., c.i.f.

RHUBARB.—Chinese small round from 5s. 9d. to 6s. 9d. per lb. on the spot.

SAFFRON.—Mancha selecta, 142s. 6d. per lb.

SARSAPARILLA.—Jamaican native red on the spot, 2s. 6d. per lb. Shipment, 2s. 1d., c.i.f.

SEEDS.—(Per cwt.). ANISE.—Bulgarian, 130s.; Turkish, 132s. 6d.; Spanish, 160s. all duty paid. CARAWAY.—Dutch unchanged at 152s. 6d., duty paid, sellers.

CELERY.—Indian quoted at 145s. spot. CORIANDER.—Moroccan, 47s. 6d.; Rumanian, 42s. 6d., both duty paid. Moroccan for shipment, 38s. 6d., c.i.f. CUMIN.—Indian, 235s. spot; Iranian, 260s., duty paid. DILL.—Indian, 100s. spot and 77s. 6d. c.i.f. FENNEL.—Chinese, 110s., duty paid; Indian, 125s. FENUGREEK.—Moroccan firm at 52s. 6d., duty paid; shipment, 44s., c.i.f. MUSTARD.—English, 75s. to 100s., according to quality.

SENEGA.—Spot, 19s. 6d. per lb.; shipment: small lots at 18s. 9d., c. and f. quoted.

SENNA.—*Tinnevelly* LEAVES, prime No. 1, 1s. 5d. per lb., f.a.q.; No. 3, 9d. PODS: manufacturing (f.a.q.), 10d. and hand-picked, 1s. 6d. to 1s. 10d. *Alexandria* pods: Manufacturing, offered from 1s. 6d. Good hand-picked cleared.

SHELLAC.—F.O.T.N., 200s. per cwt.; No. 1, 222s. 6d.; F.O., 232s. 6d. to 282s. 6d., spot.

SQUILL.—White: from 80s. to 85s. per cwt. spot.

STRAMONIUM.—Indian LEAVES 60s. per cwt., spot. Dutch 0·5 per cent. alkaloid, 93s., c.i.f.

STYRAX.—Spot, 33s. per lb., shipment, 32s., c.i.f.

TONQUIN BEANS.—Para spot, 7s. 9d. per lb. Shipment about 7s. c.i.f. Angostura 11s.

TRAGACANTH.—No. 1 ribbon, £135 to £140 per cwt. No. 2, £125 to £130.

TURMERIC.—Madras finger on spot is 110s. per cwt.; new crop, April—May shipment, 90s., c.i.f.

VALERIAN ROOT.—Spot: Indian (with rootlets), 130s. and Belgian, 175s. per cwt. Dutch whole (max. 2½ per cent. sand) for prompt shipment, 173s., c.i.f.

VANILLIN.—Rates (per lb.) are now:—5-cwt. lots, 23s. 3d.; 1-cwt., 23s. 6d.; 56-lb.; 23s. 9d.; smaller quantities, 24s.

WAXES.—(Per cwt.). BEES'—Dar-es-Salaam, spot, 480s.; shipment, 470s., c.i.f. Abyssinian, spot 410s. in bond; shipment, 405s., c.i.f. Benguela, shipment, 380s., c.i.f. Sudanese, spot, 450s.; shipment, 380s., c.i.f. CANDELILLA, spot, 460s. CARNAUBA, fatty grey, spot, 555s.; shipment, 520s., c.i.f.; prime yellow, spot, 850s., shipment, 790s., c.i.f.

## Essential and Expressed Oils

AMBER.—Rectified on the spot, 1s. 6d. per lb.

ANISE.—Chinese, 7s. 7d. per lb., spot; shipment, 7s. 6d., c.i.f.

BERGAMOT.—Spot, from 72s. 6d. per lb.

BOIS DE ROSE.—Brazilian, 15s. 3d. per lb. on the spot and 14s. 9d., c.i.f.

CAJUPUT.—Spot from 10s. per lb.

CALAMUS.—Spot, 57s. 6d. per lb.

CAMPHOR, WHITE.—Chinese, 1s. 9d. per lb. in bond.

CANANGA.—Spot, from 40s. to 47s. 6d. per lb.

CARAWAY.—Imported oil, 27s. 6d. per lb.

CARDAMOM.—From 330s. per lb. for English-distilled and 260s. for imported.

CASTOR.—Home-produced B.P. oil, spot, £150 per ton naked ex mill (2-ton lots).

CASSIA.—Spot, 15s. 6d. per lb.; shipment, 15s., c.i.f.

CITRONELLA.—Ceylon, spot, 7s. 3d.; shipment, 7s. 1½d. per lb., c.i.f. Formosan, spot, 7s. in bond; shipment, 6s. 11d., c.i.f.

CLOVE.—Madagascar leaf, spot, 9s. 3d. per lb., duty paid; shipment: 7s. 7½d. c.i.f. Rectified 87-88 per cent., 12s. Distilled bud oil, English B.P., 30s. to 31s.

CORIANDER.—B.P. oil, 52s. 6d. per lb., spot.

GERANIUM.—Bourbon, 185s. per lb. on the spot.

GRAPEFRUIT.—Jamaican, 15s. per lb. spot. Florida, 17s. spot.

LEMON.—B.P. grades from 16s. to 26s. per lb. on the spot. Californian for shipment 25s. to 28s. 6d., c.i.f. Terpeneless, 500s. per lb.

LEMONGRASS.—Spot, 13s. per lb., and shipment, 12s. 4½d., c.i.f.

LIME.—West Indian distilled, 51s. per lb. on the spot.

NUTMEG.—Imported B.P. oil is 90s. per lb. English-distilled 100s.

ORANGE.—Spot quotations of sweet oil include Floridian at 4s. per lb.; West Indian, 5s. 6d.; Israeli, 7s. 6d.

PALMAROSA.—Spot, 35s. per lb., 34s., c.i.f.

PATCHOULI.—Penang is 37s. 6d. duty paid and 33s., c.i.f. per lb.

PENNYROYAL.—Spot, 15s. per lb., duty paid.

PEPPERMINT.—*Arvensis*: Chinese spot, 37s. 6d. per lb. Brazilian, 16s. 6d. spot and shipment, 16s. 6d., c.i.f. *Piperita*: Italian "Mitcam-type" from 42s. 6d. to 48s. 6d.; American, 26s. to 30s., as to origin.

PIMENTO.—English-distilled berry, 167s. 6d. per lb.; imported, 77s. 6d. Rectified leaf 27s. 6d. per lb. for small lots.

RUE.—Spanish is 25s. per lb. spot.

SAGE.—Spanish, 9s. per lb.

SASSAFRAS.—Brazilian is from 3s. 6d. per lb., duty paid.

PEARMINT.—American oil from 67s. 6d. to 70s. per lb. Chinese, none available.

TANGERINE.—From 24s. to 26s. per lb. spot.

## UNITED STATES REPORT

NEW YORK, MARCH 22: Drugs and fine chemicals were mostly quiet and prices were unchanged. Higher per lb. among ESSENTIAL OILS were Formosan CITRONELLA (resale) at \$1·15 (up 15 cents); LAVANDIN, \$1·15 (15 cents); Turkish GERANIUM, \$5·60 (60 cents); SANDALWOOD, \$17 (50 cents); natural PEPPERMINT \$4·40, up 15 cents and redistilled oil at \$4·75 (20 cents). CLARY SAGE dropped sharply to \$19 a lb. from a former level of \$25.

## TRADE MARKS

## APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," March 2

For perfumes, toilet preparations (not medicated), cosmetic preparations, dentifrices, depilatory preparations, toilet articles (not included in other classes), sachets for use in waving the hair, soaps and essential oils (3)

Device with word YARDLEY, 794,195, by Yardley & Co., Ltd., London, E.15.

For pharmaceutical preparations for use in the stimulation of the respiratory organs and the vaso-motor centres, being goods for export to Australia, Bahrain, Barbados, Burma, Ceylon, Cyprus, Ecuador, Egypt, Goa (Portuguese India), Hong Kong, Iraq, Jordan, Kuwait, Libya, Malta, Mauritius, Pakistan, Persia, Qatar, Saudi Arabia, Siam, Sudan and Syria (5)

CORAVIT, 775,258, by H. & T. Kirby & Co., Ltd., London, N.W.2.

For pharmaceutical preparations and substances for the treatment of ailments of the gonads (5)

GONADOTESTYL, 786,983, by Société de l'Institut de Sérothérapie Hemopoïétique, S.A., Paris, France.

For all goods (5)

IETOX, 787,768, by California Spray-Chemical Corporation, San Francisco, California, U.S.A.

LIDODURAL, LIDOTOX, LIDOSAN, LIDOMIN, LIDOTIN, 796,418-22, by Willows Francis, Ltd., Epsom, Surrey.

TARACTAN, 796,828, by Roche Products, Ltd., Welwyn Garden City, Herts.

For bandages and plasters for surgical and curative purposes (5)

EYETEC, 789,594, by Edward Taylor, Ltd., Monton, Eccles, Manchester.

For pharmaceutical preparations, and veterinary and sanitary substances (5)

FLURYMAL, 792,418, by Schering, A.G., Berlin (West), Germany.

For antibiotic preparations and substances (5)

ENTRUMYCIN, 792,946, ULTRAMYCIN, 792,970, by Beecham Research Laboratories, Ltd., Brentford, Middlesex.

For pharmaceutical preparations and substances, all for veterinary use (5)

MUVAX, 793,082, by Willows Francis, Ltd., London, E.8, and at Epsom, Surrey.

For pharmaceutical preparations and substances for human and veterinary use, all for sale in the United Kingdom (5)

LOZETS, 796,920, by Bayer Products, Ltd., Kingston-upon-Thames, Surrey.

From the "Trade Marks Journal," March 16

For detergents in liquid form (not for use in industrial or manufacturing processes) (3)

WALDET, 779,446, by Wallace & Denston, Ltd., London, W.3.

For all goods (3)

CHA-CHA, 784,448, by André Philippe-Silmor Distributing Co., London, N.W.1.

For perfumes, essential oils, cosmetics (not being toilet preparations) and hair lotions (3)

PIERRE CARDIN, 789,463, by Picaso-Anstalt, Vaduz, Liechtenstein.

For perfumes, cosmetics, non-medicated toilet preparations; soaps, detergents (not for use in industrial or manufacturing processes); and preparations for the hair and made-up kits comprising such preparations (3)

COLORCADE, 790,179, by Gillette Co., Boston, Massachusetts, U.S.A.

For shaving lotions being non-medicated toilet preparations (3)

RIOSAR, 796,179, by Reine Marguerite Cuisiner, Paris, France.

For soaps (3)

SAVONOL, 796,394, by J. C. & J. Field, Ltd., Salford, Lancs.

For chemical preparations and substances for laundry use (3)

KUDOS, 797,489, by Boots Pure Drug Co., Ltd., Nottingham.

For all goods (3) and (5)

Devices, B795,983-84, by Genatosan, Ltd., Loughborough, Leics.

For all goods, but not including dental materials (5)

S.C.W.S., B787,231, by Scottish Co-operative Wholesale Society, Ltd., Glasgow, C.5.

For all goods (5)

Device with words TREE OF LIFE, 788,003,

by Carnegies of Welwyn, Ltd., Welwyn Garden City, Herts. SURGILENE, 791,856, by American Cyanamid Co., New York, U.S.A. DARUVEK, 798,097, by Roche Products, Ltd., Welwyn Garden City, Herts.

For pharmaceutical preparations for human use as antagonist of aldosterone (5)

ALDACTONE, 792,841, by G. D. Searle & Co., Skokie, Illinois, U.S.A.

For bactericides (5)

VELLON, 793,022, by Industrial Soaps, Ltd., London, E.1.

For preparations for use as nutritional additives to animal foodstuffs (5)

PEPPET, B793,057, by Swale Chemicals, Ltd., Croydon, Surrey.

For materials prepared for bandaging, sanitary tampons and menstruation bandages (5)

"OBAX," 795,072, by Dr. Carl Hahn, K.G., Düsseldorf, Germany.

For medicated cough sweets (5)

Device with word HACKS, 796,278, by White Hudson & Co., Ltd., Southport, Lancs.

For pharmaceutical preparations and substances for human and veterinary use, all for sale in the United Kingdom (5)

TENUSYN, 796,573, by Bayer Products, Ltd., Kingston-upon-Thames, Surrey.

For pharmaceutical preparations and substances for use in the treatment of acne; all for sale in the United Kingdom (5)

ACNEXIN, 796,918, by Bayer Products, Ltd., Kingston-upon-Thames, Surrey.

For pharmaceutical preparations and substances for human and veterinary use (5)

MILLICORTENOL, 797,238, by CIBA, Ltd., Basle, Switzerland.

For pharmaceutical products for use in inhalation and local anaesthesia (5)

FLETHER, 797,860, by Imperial Chemical Industries, Ltd., London, S.W.1.

## EXPANSION PLANS

A POLYTHENE factory with a capacity of 15,000 tons a year is to be built at Copenhagen as a joint venture between Imperial Chemical Industries, Ltd., and a Danish company. The new company will be known as Danbritkem A/S, Copenhagen.

HOOKER Chemical Corporation of New York, plans to build jointly with Atanor, an Argentine concern, a 25 tons-a-day phenol plant in Argentina. Under an agreement with Atanor,

## COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on

## Tuesday, March 29

EAST KENT BRANCH, PHARMACEUTICAL SOCIETY, Falstaff hotel, Canterbury, at 8 p.m. Dr. F. E. Camps on "Poisoning—Accident, Suicide or Murder."

SHEFFIELD BRANCH, PHARMACEUTICAL SOCIETY, Grand hotel, at 8 p.m. Meeting.

SOUTH-EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, out-patients' department, Miller General Hospital, at 7.45 p.m. Dr. R. H. R. Hartley on "Therapy of Diseases of the Heart."

WEST HERITZ BRANCH, PHARMACEUTICAL SOCIETY, Water End Barn, St. Albans, at 8 p.m. Dinner and dance.

## Wednesday, March 30

HULL CHEMISTS' ASSOCIATION and BRANCH, Queen's hotel, at 7.15 p.m. Dinner meeting.

MANSFIELD BRANCH, PHARMACEUTICAL SOCIETY, Normanton Inn, Columba Park, Worksop. Dinner dance.

## Thursday, March 31

BEOS BRANCH, PHARMACEUTICAL SOCIETY, Bedford General Hospital (south wing), Kempston Road, Bedford, at 7.45 p.m. Discussion.

BIRKENHEAD AND WIRRAL PHARMACISTS' ASSOCIATION BRANCH, Central hotel, at 8 p.m. Brains trust.

Hooker also has an option to buy up to 50 per cent. of a company called Duranor, which will market the phenol made at the jointly-owned plant.

## PATENTS

(by permission, Controller, H.M. Stationery Office)

## COMPLETE SPECIFICATIONS ACCEPTED

From the "Official Journal (Patents),"

## March 16

Fungicidal agents and their use. J. R. Geigy, A.G. 834,576.

Hydrohalide salts of oxytetracycline. C. Pfizer & Co., Inc. 834,579.

Steroids and biologically active preparations containing steroids. Organon Laboratories, Ltd. 834,913.

Steroid compounds. Merck & Co., Inc. 834,828. Radiopaque compositions. Sterling Drug, Inc. 834,517.

Derivatives of 2-mercaptopyridine 1-oxide and methods of preparing same. Olin Mathieson Chemical Corporation. 834,553.

Substituted isonicotinic acid amines and process for their manufacture Farbwerke Hoechst A.G., vormals Meister, Lucius, & Brüning. 834,565.

Pyridine compounds. Merck & Co., Inc. 834,451.

Derivatives of piperidine and the preparation thereof. Wellcome Foundation, Ltd. 834,453.

Aromatic sulphonamides. Farbenfabriken Bayer, A.G. 834,929.

Process for the preparation of bis-testosterone and the 17-acetate thereof. Laboratoires Française de Chimiotherapie. 834,692.

Preparation of L-glutamine. S. Rath. 834,650. Purification of irradiated 7-dehydrocholesterol. Nopco Chemical Co. 834,773.

α,α-substituted O, O-dialkyl-dithiophosphorylactic esters and process for their preparation. Montecatini Soc. Generale Per L'Industria Mineraria E Chimica. 834,814.

Chlorobenzoic amides and herbicidal compositions containing them. Hooker Chemical Corporation, formerly Hooker Electrochemical Co. 834,880.

Parenteral solution equipment and method of using same. J. W. Richter. 834,577.

Bottle or container capsulizing apparatus. G. S. Clayton. 834,463.

Containers for toilet salves and the like. Laughton & Sons, Ltd., formerly Jarrett, Rainsford & Laughton, Ltd. 834,486.

Apparatus for the treatment of liquids through a membrane. J. A. Kemp (A. Thomas). 834,645.

Dispensing device. Gillette Co. 834,873.

British patent specifications are obtainable (price 3s. 6d. each) from The Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2.

## Friday, April 1

BLACKPOOL BRANCH, PHARMACEUTICAL SOCIETY, Imperial hotel, North Promenade, Blackpool, at 7.45 p.m. Meeting.

BRISTOL COLLEGE OF TECHNOLOGY, Pharmacy department, Royal hotel, Bristol, at 7.45 p.m. Dinner dance.

MERSEYSIDE BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, 9 Bluecoat Chambers, School Lane, Liverpool, at 7.45 p.m. Dr. G. T. James on "Recent Developments in Psychiatry."



**CUMULATIVE LIST OF AMENDMENTS TO THE**  
*C. & D. Quarterly Price List, March 1*

\*=New Product; A=Advanced; R=Reduced

<b>Distaqueine V-K</b> (378 TDC)						
suspension .. 2 oz	8	10ea	..	<b>13</b>	<b>3TS</b>	
<b>Dorminal</b> (147 Boots)						
tablets, gr. 3 .. 100	66	0	..	<b>8</b>	<b>3</b> sls4	
<b>Durophet</b> (1061 Riker) capsules						
7.5 mgm .. 30	52	0	..	<b>6</b>	<b>6</b> opsls4	
300	344	0	..	<b>43</b>	<b>0</b> opsls4	
12.5 mgm .. 30	56	0	..	<b>7</b>	<b>6</b> opsls4	
300	372	0	..	<b>46</b>	<b>6</b> opsls4	
20 mgm .. 30	64	0	..	<b>8</b>	<b>0</b> opsls4	
300	416	0	..	<b>52</b>	<b>0</b> opsls4	
<b>Dylon</b> (816 Mayborn)						
wash-creme ..	22	6	..	<b>2</b>	<b>6</b>	
<b>Elliman's</b> (414 Elliman)						
(distributor, 994 P&M)						
"universal" embrocation						
3929	47	4	11	10	<b>6</b>	<b>4</b>
<b>Delete</b> <b>Emmotone</b> (571 Stagg) .. 8 oz	..	..	..	..		
<b>Emmotone</b> (571 Stagg) .. 6 oz	24	0	..	6	0	<b>3</b>
8 oz	20	0	..	..		
<b>Delete</b> <b>Enseals</b> (413 Lilly) ferrous sulphate						
<b>Epitone</b> (147 Boots) .. 8 oz	26	0	..	..	<b>3</b>	<b>9</b>
<b>Esidrex K</b> (262 Ciba)						
tablets ..	45	0	..	..	<b>6</b>	<b>6</b>
25	54	0	..	..	<b>6</b>	<b>9</b>
100	20	0ea	..	..	<b>25</b>	<b>0</b>
500	81	4ea	..	..	<b>122</b>	<b>0</b>
<b>Ethyl chloride</b> (394 Duncan)						
100 mils	50	0	..	..	<b>6</b>	<b>3</b>
<b>Eupinal</b> (339 CG)						
with ephedrine .. 8 oz	56	0	14	0	<b>8</b>	<b>4</b>
<b>Evan Williams</b> (437 EW)						
shampoo cream	18	5	4	7	<b>2</b>	<b>6</b>
<b>Feedrite</b> (454 Feedrite)						
polythene bottle .. 4 oz	11	0	..	..	<b>1</b>	<b>4</b>
spare polythene .. 8 oz	14	0	..	..	<b>1</b>	<b>8</b>
<b>A</b> <b>Fee-a-Mint</b> (1330 White) .. 6	7	0	..	1	9	<b>1</b>
16	15	4	3	10	<b>2</b>	<b>2</b>
<b>Fennings</b> (1100TS) code correction						
<b>Ferroids</b> (1061 Riker) .. 100	80	0	..	..	<b>10</b>	<b>0</b>
1000	656	0	..	..	<b>82</b>	<b>0</b>
First aid dressing pack						
(1390 SFA)	18	0	..	..	<b>2</b>	<b>0</b>
<b>* Fisons</b> (463 Fisons)						
hedge setter .. 4 oz	..	..	..	..	<b>5</b>	<b>0</b>
8 oz	..	..	..	..	<b>9</b>	<b>6</b>
Evergreen fertiliser						
distributor ..	..	..	..	..	<b>59</b>	<b>6</b>
spot weeder aerosol ..	..	..	..	..	<b>5</b>	<b>6</b>
<b>Frantin</b> (208 BW) brand						
dispersible powder (Vet)						
250 gm	675	0	..	..	<b>75</b>	<b>0</b>
<b>Freemans</b> (479 WF)						
bathing cap Chic .. 1B5	21	0	1	0	<b>2</b>	<b>9</b>
Sea Child 1B7	19	6	1	0	<b>2</b>	<b>6</b>
Diver .. 1B6	21	0	1	0	<b>2</b>	<b>9</b>
Girl .. 1B8	21	0	1	0	<b>2</b>	<b>9</b>
Maid .. 1B4	28	6	2	0	<b>3</b>	<b>9</b>
<b>* Frescabel</b> (726 Lancome)						
cream ..	1½ oz	..	..	..	<b>22</b>	<b>6</b>
2 oz	..	..	..	..	<b>31</b>	<b>6</b>
<b>Frozoclone</b> (365 Demuth)						
(distributors 261 Christy)	24	0	12	0	<b>4</b>	<b>0</b>
<b>Frozolavender</b> (365 Demuth)						
(distributors 261 Christy)	24	0	12	0	<b>4</b>	<b>0</b>
<b>Glo-ahead</b> (1188 Steiner)						
hair colouriser ..	..	..	..	..	<b>4</b>	<b>6</b>
<b>Hazlewood</b> (1393 Hazlewood)						
soap Easter eggs .. 4	gross	gross	..	..	<b>1</b>	<b>11</b>
hand painted chick	80	0	20	0	<b>1</b>	<b>0</b>
<b>Heparin B.P.</b> (930 P&B)						
injection vial 1,000 i.u./ml.	42	0	..	..	<b>5</b>	<b>3</b>
5,000 i.u./ml.	150	0	..	..	<b>18</b>	<b>9</b>
25,000 i.u./ml.	672	0	..	..	<b>84</b>	<b>0</b>
<b>Hi-Shine</b> (116 Benton)						
hair conditioner ..	39	0	19	6	<b>6</b>	<b>6</b>
<b>Hormofemin</b> (830 Medo)						
tablets 0.1 mgm .. 100	14	0	..	..	<b>1</b>	<b>9</b>
250	24	0	..	..	<b>3</b>	<b>0</b>
500	36	0	..	..	<b>4</b>	<b>6</b>
1000	60	0	..	..	<b>7</b>	<b>6</b>
0.3 mgm .. 100	18	0	..	..	<b>2</b>	<b>3</b>
250	32	0	..	..	<b>4</b>	<b>0</b>
500	52	0	..	..	<b>6</b>	<b>6</b>
1000	90	0	..	..	<b>11</b>	<b>3</b>
1.0 mgm .. 100	22	0	..	..	<b>2</b>	<b>9</b>
250	46	0	..	..	<b>5</b>	<b>9</b>
500	78	0	..	..	<b>9</b>	<b>9</b>
1000	144	0	..	..	<b>18</b>	<b>0</b>
5.0 mgm .. 100	44	0	..	..	<b>5</b>	<b>6</b>
250	100	0	..	..	<b>12</b>	<b>6</b>
500	186	0	..	..	<b>23</b>	<b>3</b>
compound tablets .. 50	40	0	..	..	<b>5</b>	<b>0</b> opsls4
100	76	0	..	..	<b>9</b>	<b>6</b> opsls4
250	168	0	..	..	<b>21</b>	<b>0</b> opsls4
500	312	0	..	..	<b>39</b>	<b>0</b> opsls4
1000	600	0	..	..	<b>75</b>	<b>0</b> opsls4
cream .. 1 oz	40	0	..	..	<b>5</b>	<b>0</b>
<b>Hydro Saluric K</b> (837 MSD)						
tablets .. 25	8	8ea	..	<b>13</b>	<b>0</b>	
100	32	8ea	..	<b>49</b>	<b>0</b>	
500	160	0ea	..	<b>240</b>	<b>0</b>	
<b>Delete</b> <b>Hydrothide</b> (830 Medo) .. 100	32	8ea	..	<b>49</b>	<b>0</b>	
Hypertane (830 Medo)						
tablets .. 500	..	..				
1000	..	..				
compound tablets .. 500	..	..				
1000	..	..				

<b>Inco-Pads</b> (1073 Robinson)						
..	60	0	..	..	<b>6</b>	<b>11</b>
<b>Inecto</b> (1028 Rapidol)						
colour-cream ..	40	0	20	0	<b>6</b>	<b>8</b>
<b>Inoxa</b> (654 Inoxa)						
Mermaid Pink lipstick	..	..	..	..	<b>5</b>	<b>0</b>
Fire Coral ..	..	..	..	..	<b>5</b>	<b>0</b>
twin pack ..	..	..	..	..	<b>9</b>	<b>6</b>
<b>Intimate</b> (1052 Revlon)						
eau de toilet 0984 .. 2 oz	..	..	..	..	<b>15</b>	<b>6</b>
0985 .. 4 oz	..	..	..	..	<b>27</b>	<b>6</b>
spray mist 0900 .. 4 oz	..	..	..	..	<b>32</b>	<b>6</b>
<b>Intralgin</b> (1061 Riker)						
liquid ..	..	..	..	..	<b>8</b>	<b>oz</b>
8 oz	80	0	20	0	<b>11</b>	<b>8</b>
32 oz	236	0	59	0	<b>34</b>	<b>5</b>
gel ..	50	gm	40	0	10	0
<b>Ismelin</b> (262 Ciba)						
tablets 10 mgm ..	..	25	8	sea	2	lea
100	32	4ea	8	1ea	<b>56</b>	<b>7</b>
500	157	4ea	39	4ea	<b>275</b>	<b>4</b>
25 mgm ..	..	25	20	0ea	5	lea
100	76	4ea	19	1ea	<b>133</b>	<b>7</b>
500	376	8ea	94	2ea	<b>659</b>	<b>2</b>
<b>Jertox</b> (1232 T&R)						
aerosol insecticide ..	..	31	6	..	..	<b>3</b>
<b>Jeyses'</b> (671 Jeyses) fluid	16 oz	22	6	..	..	<b>2</b>
<b>K2r</b> (890 NC&C)						
spot lifter ..	..	28	0	..	..	<b>3</b>
<b>Delete</b> Keith's (787 Macfarlan)						
ether anaesthetic ..	..	250	mils	..	..	
500 mils	..	..	..	..		
<b>Kill Gold</b> (1388 Durazone)						
<b>Kirby's</b> (705 Kirby)						
iron and yeast tonic ..	..	80	18	6	<b>7</b>	<b>½</b>
<b>Kisby</b> (1067 Roberts)						
dry shampoo powder ..	..	21	0	5	3	<b>2</b>
50	0	12	6	6	<b>8</b>	<b>8</b>
<b>Larola</b> (105 Beetham)						
skin lotion ..	..	2 oz	15	0	7	<b>6</b>
3 oz	21	0	10	6	<b>3</b>	<b>6</b>
6 oz	33	0	16	6	<b>5</b>	<b>6</b>
<b>Ledermycin</b> (746 Lederle)						
capsules 150 mgm ..	..	16	29	0ea	..	<b>43</b>
100	174	2ea	..	..	<b>261</b>	<b>3</b>
1,000	1,682	4ea	..	..	<b>2,523</b>	<b>6</b>
<b>Lignocaine</b> (787 Macfarlan)						
hydrochloride solution ..	..	50	0	..	..	<b>6</b>
25 mls 4% ..	..	..	..	..		
<b>Delete</b> <b>Lignocaine</b> (787 Macfarlan)						
neothyl ..	..	100	gm	4	0ea	..
500 gm	..	..	16	0ea	..	
<b>Linct. Pholcodin. Co.</b>						
(579 Hatrick) .. 16 oz	..	90	0	..	..	
80 oz	420	0	..	..		
<b>Liquid Satin</b> (654 Inoxa)						
satin blush ..	..	..	..	..	<b>6</b>	<b>9</b>
<b>Little Laxaliver</b> (372 De Witt)						
pills ..	..	13	6	3	4	<b>1</b>
<b>Living Curl</b> (1052 Revlon) 7 oz						
<b>Marplan</b> (1074 Roche)						
tablets 10 mgm ..	..	50	8	4ea	2	lea
250	31	8ea	7	11ea	<b>55</b>	<b>5</b>
<b>Max Factor</b> (813 MF)						
hand cream tube ..	..	18	0	9	0	<b>3</b>
<b>Medac</b> (502 Genatasan) tube						
Medicel (938 PD)						
suspension ..	..	85	0ea	..	..	
440	..	..	..	..	<b>55</b>	<b>0</b>
refill ..	..	412	0	..	<b>51</b>	<b>6</b>
plastic mouthpiece ..	..	28	0	..	<b>3</b>	<b>6</b>
<b>Medihaler Epi</b> (1061 Riker)						
refill ..	..	152	0	..	<b>19</b>	<b>0</b>
plastic mouthpiece ..	..	124	0	..	<b>15</b>	<b>6</b>
<b>Medihaler Iso</b> (1061 Riker)						
refill ..	..	152	0	..	<b>19</b>	<b>0</b>
forte ..	..	124	0	..	<b>15</b>	<b>6</b>
refill ..	..	176	0	..	<b>22</b>	<b>0</b>
plastic mouthpiece ..	..	148	0	..	<b>18</b>	<b>6</b>
<b>Meggesson</b> (831 Meggeson)						
mixed fruit pastilles ..	..	28	0	..	<b>3</b>	<b>6</b>
"Hurdler" box ..	..	13	6	..	..	<b>1</b>
<b>Mephylon</b> (837 MSD)						
emulsion 10 mgm per ml ..	..	30	0ea	..	..	
1 mil 6	..	..	..	..		
<b>Midcel</b> (938 PD)						
suspension ..	..	85	0ea	..	..	
16 oz	..	..	..	..		
<b>Mix-A-Shake</b> (621 Horlicks)						
pkt. ..	..	57	7	..	..	<b>6</b>
..	..	..	..	..		
<b>Morphy-Richards</b> (863 MR)						
electric shaver ..	..	..	..	10	9ea	<b>70</b>
..	..	..	..	..	<b>0</b>	<b>p2</b>
<b>Movol</b> (406 WE)						
pellets ..	..	74	0	..	..	<b>9</b>
<b>R</b> <b>Mycota</b> (147 Boots)						
powder ..	..	18	0	..	..	<b>2&lt;/</b>

<b>Noradran</b> (897 NC) Bitabs	50 doses	84	0	..	10	6	p1		
	250 doses	368	0	..	46	0	p1		
Bitabs nocte	20 doses	48	0	..	6	0	p1s1s4		
	100 doses	210	0	..	26	3	p1s1s4		
inhaler	..	96	0	..	12	0			
<b>Norflex</b> (1061 Riker)	tablets ..	100	20	Sea	31	0			
	500	93	0ea	..	139	6			
<b>Nuit de Longchamp</b> (Lubin)									
(1 Abbey)	parfum de toilette	1 oz	..	..	17	6			
	2 oz	..	..	..	30	0			
	4 oz	..	..	..	45	0			
<b>Nu-seals</b> (413 Lilly)	ferrous sulphate gr 5 dp	100	38	0	..	4	9		
	dp 1000	256	0	..	32	0			
	dp 5000	1220	0	..	152	6			
<b>Old Spice</b> (1131 Shulton)	brushless shaving cream	23	0	5	7	3	6		
<b>Omnivite</b> (1235 Vitamins)	forte tablets ..	100	15	0ea	..	22	6		
<b>Opilon</b> (1278 Veritas)	tablets, 5 mgm	50	5	3ea	..				
	200	16	4ea	..					
<b>Delete</b>	Page Barker (261 Christy)								
	searf lotion								
<b>Pectamol</b> (179 BDH)	linctus ..	2 litres	590	0	..				
<b>Penbenemid</b> (837 MSD)	suspension ..	2 oz	78	0	..	9	9		
	tablets ..	12	93	0	..	11	7		
<b>Pentoxylon</b> (1061 Riker)	tablets ..	25	36	0	..	4	6		
	100	120	0	..	15	0			
	500	528	0	..	66	0			
<b>Pethidine</b> (394 Duncan)	hydrochloride tablets								
	50 mgm ..	100	78	0	..	9	9	DD	
	500	346	0	..	43	3	DD		
<b>Phillips</b> (976 Phillips)	toothpaste ..	..	20	2	5	0	1	2	
	Pholtox.								
<b>Phocomed</b> (830 Medo)	pastilles ..	30	36	0	..	4	6	p1	
	250	240	0	..	30	0	p1		
* <b>Pinaud</b> (128 Biometica)	Lilac Vegetal ..	8 oz	50	0	25	0	8	4	
<b>Plantoid</b> (1396 Plantoid)	automatic injector ..	..	..	..	18	9			
<b>Pomp</b> (365 Demuth)	distributors 261 Christy)								
	moth proofer aerosol 12 oz	58	6	..	6	6			
	fly killer aerosol 16 oz	81	0	..	9	0			
<b>Primodos</b> (973 Pharmethicals)	tablets ..	2	5	0ea	..	7	6		
	20	42	6ea	..	63	9			
<b>Delete</b>	Primodos (973 Pharmethicals)								
	tablets ..	4	6	2ea	..	9	3		
	40	52	6ea	..	78	9			
<b>Profenil</b> (324 Crookes)	25	32	0	..	4	0			
	100	112	0	..	14	0			
	250	256	0	..	32	0			
<b>Pulmodrine</b> (830 Medo)	syrup ..	40 oz	20	0ea	5	0ea	35	0 s7	
	80 oz	36	0ea	9	0ea	63	0 s7		
<b>Puromyn</b> (218 Calmic)	tablets ..	20	34	0	8	6	4	11½ TS	
<b>Q-tips</b> (1020 Q-tips)	..	100	8	0	..	1	0		
<b>Quatoral</b> (549 Guest)	..	15	0	..	2	6	p1		
<b>Queen</b> (151 Boutalis)	seaside cream ..	..	21	0	10	6	3	6	
	hand cream ..	..	21	0	10	6	3	6	
	36	0	18	0	6	0			
<b>Rapidal</b> (830 Medo)	..	250	15	6ea	..	23	3	p1s1s4	
<b>Rautrax</b> (1176 Squibb)	tablets Improved	25	9	10ea	..	14	9		
	100	37	4ea	..	56	0			
	500	169	4ea	..	254	0			
<b>Rauwoloid</b> (1061 Riker)	..	60	112	0	..	14	0		
	500	768	0	..	96	0			
	and hexamethonium ..	100	252	0	..	34	0	s1s4	
	500	1224	0	..	153	0	s1s4		
	and <b>Veriloid</b> ..	100	488	0	..	61	0		
	500	2192	0	..	274	0			
<b>Retina</b> (711 Kodak)	camera IB ..	..	..	..	..	813	9		
	11C ..	..	..	..	..	1,046	3		
	111C ..	..	..	..	..	1,395	0		
	11S ..	..	..	..	..	1,092	9		
	111S ..	..	..	..	..	1,371	9		
	reflex S ..	..	..	..	..	1,813	6		
<b>Retinette</b> (711 Kodak)	camera 11A ..	..	..	..	..	651	0		
<b>Revlon</b> (1052 Revlon)	aquamarine fragrance	2 oz	..	..	12	6			
	4 oz	..	..	..	21	6			
	spray mist ..	..	..	..	29	6			
<b>Robinade</b> (285 Colman)	sachet ..	..	14	3	..	1½			
	gross								
<b>Robinsons</b> (285 Colman)	Sicilian lemon juice ..	25 oz	41	0	..	4	3		
<b>Roman Holiday</b> (150 Bourjois)	cologne stick ..	..	..	..	5	6			
<b>Rozalex</b> (1088 Rozalex)	waterless skin cleansertube	22	6	..	2	6			
	stain removing cream .. tube	31	6	..	3	6			
* <b>Rubinstein</b> (596 HR)	heart shaped lipstick ..	62	0	31	0	10	6		
	refill ..	38	0	19	0	6	6		

with phenobarbitone ..	25	40	0	10	0	5	10	pls1s4
100	112	0	..	..	..	pls1s4	pls1s4	pls1s4
1000	888	0	..	..	..	pls1s4	pls1s4	pls1s4
<b>Therapas</b> (1154 S&N) code correction								
<b>Three Flasks</b> (1232 T&R)								
children's cherry cough syrup ..	2½ oz	12	4	3	1	2	0	
Tonivitan (830 Medo)								
capsules ..	1000	60	0ea	..	..	90	0	
Trust (671 Jeyes) toilet roll ..	..	..	..	..	..	1	4	
Tussin (195 Brook Parker)								
4 oz	2	1ea						
8 oz	3	3ea						
Ultima (1052 Revlon) .. 1 oz	..	..	..	..	..	14	6	
2 oz	..	..	..	..	..	52	6	
4 oz	..	..	..	..	..	84	0	
Unic (581 Haynor)								
battery shaver ..	36	3ea	8	10ea	58	10		
Vaccination Pads (1295 Wade)			3	8	..	..	5½	
Vandid (1061 Riker) ampoules								
5% ..	2 mils	6	13	0ea	..	19	6	
5 mils	6	18	0ea	..	..	27	0	
Vapules (1367 R&B)								
dp 12 x 10 ..	12	0ea	..					
Vecortenol (262 CIBA)								
4 mils ..	15	8	..	..	..	23	6	
10 mils ..	35	4	..	..	..	53	0	
Velvet's (1389 Velvet)								
soft tissues ..								
"Four-in-one" pack ..	..	..	..	..	..	2	0	
Veritoloid (1061 Riker)								
tablets, 1 mgm ..	100	160	0	..	..	20	0	
500 ..	720	0	..	..	..	90	0	
2 mgm ..	100	304	0	..	..	38	0	
500 ..	1368	0	..	..	..	171	0	
ampoules intravenous,								
0-4 mgm/5 mils ..	6	200	0	..	..	25	0	
intramuscular,								
1 mgm/2 mils ..	6	184	0	..	..	23	0	
Veritoloid VP (1061 Riker)								
tablets ..	..	100	312	0	..	39	0	pls1s4
500 ..	1408	0	..	..	..	176	0	pls1s4
<b>Delete</b>								
Versenate (1061 Riker)								
Vitorange (549 Guest)								
tablets .. ..	..	..	10	0	..	..	1	3
.. ..	..	..	20	0	..	..	2	6
Vivomin (324 Crookes) .. 12 oz	76	6	..	..	..	8	6	
Viomycin P (378 TDC) .. 1.0 gm ..	..	5	65	5ea	..	..	..	TS
Warm Glow (278 Cole)								
electric blankets ..								
"Juno" ..	50 x 30 in	43	1½ea	10	5ea	67	11	
"Sylvia" ..	60 x 33 in	56	3ea	13	7ea	88	7	
"Diana" ..	60 x 51 in	76	10½ea	18	6ea	121	0	
"Sherbourne" ..	60 x 31 in	71	3ea	17	2ea	112	2	
"Dorchester" ..	60 x 51 in	99	4½ea	23	11ea	156	5	
"Vigilux" ..	single 65 x 36 in	127	6ea	30	9ea	200	9	
double 72 x 58 in ..	187	6ea	45	2ea	295	2		
twin 72 x 58 in ..	210	0ea	57	7ea	330	7		
<b>Delete</b>								
Wellcome (208 BW)								
diphtheria prophylactic								
D.T.P.P. .. 1 cc	3	10	cc	..	..			
<b>Wright's</b> (1351 WLU)								
insect killer aerosol ..	34	9	..	..	..	4	0	
air sweetener aerosol ..	34	9	..	..	..	4	0	
moth proofer aerosol ..	34	9	..	..	..	4	0	
wasp killer .. ..	10	3	..	..	..	1	7	

<b>Xylocaine</b> (394 Duncan)				
viscous ..	..	150	mils	100
Zoflora (1232 T&R) aerosol	31	6	..	..
				12 6
				3 9

#### ADDITIONS TO KEY TO SUPPLIERS:

(2 Abbott) = ABBOTT LABORATORIES LTD., 8 Baker Street, London, W.1. Hunter 1381.

(48 AP) = ANDRE PHILIPPE LTD., 16 Cosway Street, N.W.1.

(78 AS&Co) = AYRTON, SAUNDERS & CO., LTD., P.O. Box 38, 34 Hanover Street, Liverpool 1. Royal 8282.

(128 Biometica) = BIOMETICA LTD., Elstree Way, Boreham Wood, Herts. Elstree 1721.

(150 Bourjois) = BOURJOIS LTD., Queens Way, Croydon, Surrey.

(234 Cartwright) = W. B. CARTWRIGHT, LTD., Rawdon, Leeds. Rawdon 713/6.

(406 WE) = WILLIAM EDGE & SONS, LTD., Raphael Street, Bolton, Lancs. Higher Bolton 41201.

(463 Fisons) = FISON'S LTD., Harvest House, Felixstowe, Suffolk.

(477 AF&B) = ALFRED FRANKS, & BARTLETT CO., LTD., 226 Grays Inn Road, London, W.C.1. Ter. 9865.

(499 Richter) = GEDEON RICHTER (GT. BRITAIN) LTD., Richter House, 14 Wellington Road, N.W.5.

(596 HR) = HELENA RUBINSTEIN LTD., 3 Grafton Street, London, W.1. Grosvenor 7501.

(654 Innoxa) = INNOXA (ENGLAND) LTD., 1 Eden Street, N.W.1.

(677 JK) = JOSEPHINE KELL, LTD., 24 Old Bond Street, London, W.1. Hyde Park 7353.

(726 Lancome) = LANCOME (ENGLAND) LTD., 14 Grosvenor Street, London, W.1. Hyde Park 6811.

(797 MSG) = MARIA ST. GEORGE LTD., 12 Phillimore Terrace, London, W.8.

(809 M&W) = MATTHEWS & WILSON, LTD., 45 Morrice Road, London, S.W.2. Tulse Hill 5881.

(816 Mayborn) = MAYBORN PRODUCTS LTD., Dylon Works, Berrymans Lane, London, S.E.26. Sydenham 4422.

(830 Medo) = MEDO-CHEMICALS, LTD., 144 Fortress Road, London, N.W.5. Gulliver 3352.

(831 Meggeson) = MEGGESON & CO., LTD., Llewellyn Street, London, S.E.16. Bermondsey 1741.

(890 NC & C) = NEWTON CHAMBERS & CO., LTD., Thorncliffe, Sheffield. Ecclesfield 3171.

(944 PCP) = P C PRODUCTS, LTD., 33 Union Street, London, S.E.1. HOP 2841.

(1028 Rapitol) = RAPIDOL LTD., Inecto House, 27 Dover Street, W.1.

(1123 Secto) = SECTO LTD., Shaw Street, Blackburn, Lancs.

(1242 Toni) = TONI COSMETICS, Harlequin Avenue, Brentford, Middlesex. Isleworth 4343.

(1272 VB&G) = V. B. & G. PRODUCTS, 16 Queen Street, Leicester. Leicester 59413.

(1278 Veritas) = VERITAS DRUG CO., LTD., 223 Kensington High Street, London, W.8.

(1388 Durazone) = DURAZONE (SALES), LTD., Lovers Walk, Ballards Lane, London, N.3.

(1389 Velvet) = VELVET CREPE PAPER CO., LTD., Alperton, Middlesex.

(1390 SFA) = SAFETY FIRST AID CO., LTD., 12 Duke Street, London, S.W.1.

(1391 CHB) = CHB SUPPLIES, Market Chambers, Market Place, Blackheath, Birmingham.

(1392 TT) = TEDSON THONLEY & CO., LTD., Rochdale, Lancs.

(1396 Plantoid) = PLANTOIDS LTD., 153 Masons Hill, Bromley, Kent.

(1395 Purser) = PURSER'S LONDON (HOLBORN) LTD., 12 Fulwood Place, W.C.1.

(1393 Hazlewood) = HAZLEWOOD & SONS, LTD., Factory Lane, Derby Road, Widnes, Lancs.

## WORLD TRADE

**Italian Industrial Output Higher.**—Italian industrial production rose 10·7 per cent. in 1959 compared with 1958 for its highest annual increase for six years. Figures published by the Institute of Statistics showed that the biggest increase—19·4 per cent.—came in the chemical industry.

**Long Credit for Indonesia.**—Russia is to grant Indonesia a long-term credit of about \$250 millions, according to a joint declaration on Mr. Khrushchev's visit to Indonesia signed in Bogor Java recently. The agreement said the credit would be used to construct industrial enterprises in, among others, the chemical field.

**Joint Pharmaceutical Subsidiary.**—The French firm, Laboratoires Labaz, and the German, Woelm Co., have formed a joint subsidiary, Woelm-Labaz G.m.b.H. to produce and sell Labaz products. Labaz is participating with its Belgian subsidiary and with the Compagnie Generale Industrielle pour la France et l'Étranger.

**Cosmetics in India.**—Cosmetics worth about Rs 40 millions were estimated to be used in India, according to Mr. F. E.

Patanwala, head of an Indian cosmetic firm. He said that the Punjab led the other States in India in the use of cosmetics. Formerly, the bulk of India's needs was imported, but now Indian manufacturers were producing for the country's needs and also exporting to about twenty other countries.

**Hungary's Drug Sales Treble in Ten Years.**—Drug sales in Hungary trebled over the past ten years, and last year reached 1,252·7 million forints (nearly £38 millions) said a Health Ministry spokesman at a recent Press conference in Budapest. Average value of prescriptions has also risen, from 7·81 forints to 14·65 forints. Under the country's second five-year plan (1961-65) 95 million forints is to be spent on building 125 new pharmacies, and 13·5 million on modernising existing ones. Of Hungary's 1,370 pharmacies, 600 have been modernised since 1950. There is one pharmacy for every 7,000.

**South African Wattle Industry.**—The South African Minister of Forestry said recently that the wattle bark industry, which was started in 1864, now had over 800,000 acres under wattle and

the export value of its product was worth £5 millions a year. But the industry was in danger, because of over-production, the use of certain substitutes in the tanning industry and the competition of certain South American countries. A Bill was to be introduced to control the production of the bark, to determine prices to producers, to regulate the grading of wattle bark and to control the milling of bark, production of extract and export of wattle products.

**Soviet Pharmaceutical Delegation.**—Dr. Alexander Natradze, leader of a Soviet delegation of pharmaceutical experts, with two other members of the delegation, arrived in Madras recently to locate a site for a pharmaceutical plant. The delegation has been entrusted with the task of selecting suitable places for the location of plants for the pharmaceutical industry at an estimated cost of Rs 85 millions. They have already selected a site in Riskikesh for an antibiotics plant, a site in Hyderabad for the manufacture of synthetic drugs and another site in Bombay for a hormones plant.



## Modern girls are going for NIKINI

NIKINI advertising reaches *millions* of modern girls—and they're deciding it's just the thing for *them*.

The NIKINI—a brief, streamlined garment of fine nylon film—holds disposable NIKINI PADS in place without pins, loops or bulges. NIKINI PADS cost far less than any other.

**NIKINI**  
AND  
**NIKINI PADS**



**NIKINI GARMENT 6/11 NIKINI PADS 1/3 DOZ**

*Attractive packs and display material help your NIKINI sales.*

*Details from ROBINSON & SONS LIMITED (NIKINI SALES DEPARTMENT), WHEAT BRIDGE MILLS, CHESTERFIELD.*

# Another, winner!

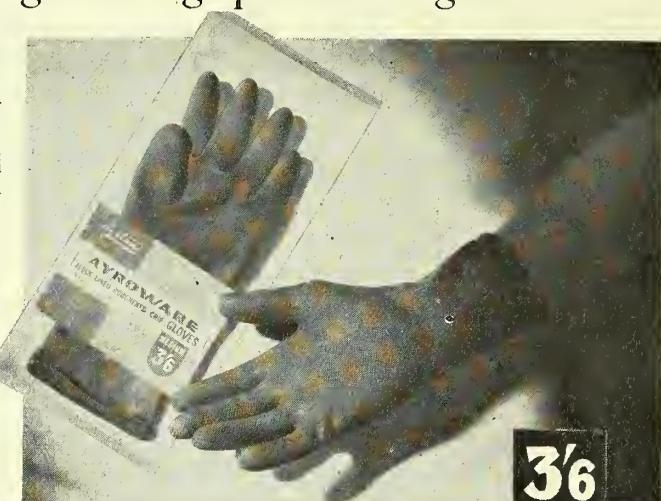
Following closely upon their recent successful introductions, Ayrtons now present the Ayroware flock-lined roughened grip rubber glove. Available in three sizes, small, medium and large—suitable for men or women—brightly packed for Window or Counter display.

For a top quality rubber glove at a keenly competitive price stock and sell Ayrtons Ayroware!

28/- per doz. P. Tax 5%

**Introductory offer:**

3 dozen lots assorted less 5%



**AYRTON, SAUNDERS & CO. LTD., HANOVER ST., LIVERPOOL**



**COLBY**  
**MAKE A**  
**COMPLETE RANGE**  
**OF**  
**SURGICAL**  
**ELASTIC**  
**STOCKINGS**

Colby Products, Ltd. are recognised as manufacturers of the very finest surgical hosiery. Firm support, comfort and very fine appearance are particular features of Colby products. The full normal range includes hose in Superfine Nylon Yarn, Nylon Yarn, Nylon Net and Elastic Yarn. Nylite, the latest addition to the Colby range is a lightweight surgical stocking knitted from Nylon Elastic Yarn.  
Colby hosiery may be prescribed under the N.H.S.

# COLBY

*Order Colby through your usual wholesaler.*

COLBY PRODUCTS LTD., 314 EUSTON ROAD, LONDON, N.W.1.

Quinine  
Sulphate B.P.  
1953 & 1932



THE BRITISH  
DYEWOOD COMPANY LTD.  
19 St. Vincent Place,  
Glasgow, C.1.



made to measure  
for **YOUR** market

The vast potential of the multi-vitamins market is but one of the spheres in which capsules are proving their tremendous advantages. They are easy to handle, attractive to look at, simple to take; yet soluble . . . and they *protect* the contents.

Capsules, in short, can add great sales appeal to *your* product, and at the same time iron out a lot of your production headaches. Add to all this the resources of the R.P. Scherer organisation . . . a complete *service unit* to handle every stage of encapsulating: production of pharmaceuticals to your own formula, material analysis and complete laboratory control, encapsulating and checking, packing and delivery. You maintain complete control of your formula, and have the exclusive use of the shapes and colours of your capsules. This service is at your disposal for experimental work too.

So why not contact R.P. Scherer now?

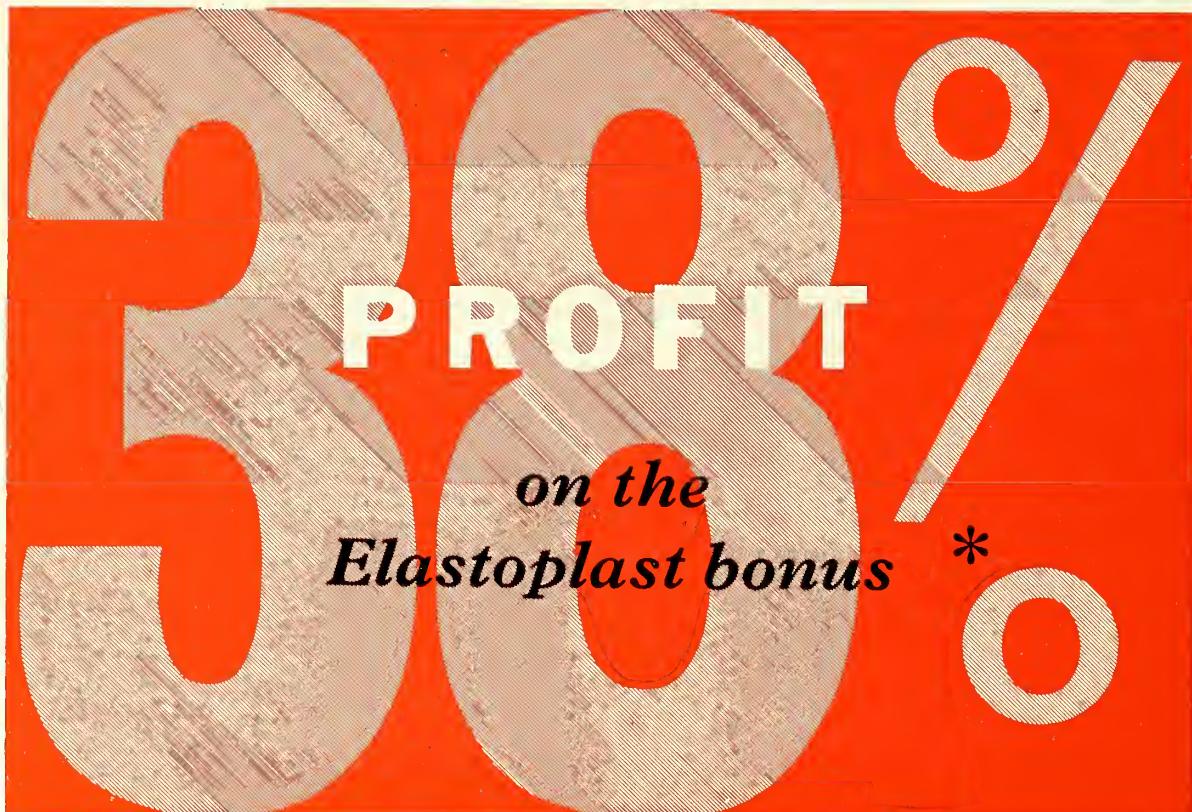


and a **MUST** for  
**MULTI-VITAMINS**

**R.P.**  
**Scherer Ltd**

# ELASTOPLAST

a profitable start in the drive to...



**FOR A  
LIMITED  
PERIOD  
ONLY**

10 Sales Units and above qualify for Scale 4 rates instead of normal scale 3 rates, providing at least 5 Units are for First Aid Dressings (Fabric, Waterproof, Airstrip or Pocket Strips)

**\* CALCULATED AT RETAIL SELLING PRICE**

# BONUS OFFER

## double your first aid dressings business

# Remember—

- 1** More than HALF your Customers need Elastoplast now.  
The First Aid Dressings survey proved it!
- 2** Remind every single customer about Elastoplast.
- 3** Big displays of Elastoplast help you to double your sales. Ask  
your Representative for the new Elastoplast Sales Aids.
- 4** Powerful National Advertising will ensure an ever increasing demand.

# Elastoplast

TRADE MARK

## STOCK UP NOW AT BONUS RATE

*Full details of the Elastoplast Bonus Offer have been mailed to all chemists.  
Additional copies can be obtained from your Smith & Nephew representative  
when he calls—or direct from:*



SMITH & NEPHEW LIMITED • WELWYN GARDEN CITY • HERTS



## Family likeness

Every family has its own characteristics by which it is easily recognized; the M&B "family" of fine pharmaceuticals is known throughout the world for consistent purity and reliability. To maintain these high standards, every chemical—and there are over 200 of them—undergoes strict analytical control in all stages of its manufacture.

You can place complete confidence in M&B brand pharmaceutical chemicals.

**M&B for fine Pharmaceuticals**

# M&B BRAND

## B A R B I T U R A T E S

ALLOBARBITONE B.P.C. • AMYLOBARBITONE B.P. • AMYLOBARBITONE  
SODIUM B.P.C. • BARBITONE B.P.C. • BARBITONE SODIUM B.P.  
BUTOBARBITONE B.P. • BUTOBARBITONE SODIUM • CYCLOBARBITONE B.P.  
HEXOBARBITONE B.P.C. • METHYLPHENOBARBITONE B.P.C. • PHENOBARBITONE B.P.  
PHENOBARBITONE SODIUM B.P. • QUINALBARBITONE SODIUM B.P.

*Further information is available on request*

MANUFACTURED BY

**MAY & BAKER LTD**

DAGENHAM · ENGLAND

Telephone: DOMINION 3060

Extensions 317, 318.



## Fighting "MANAGEMENT FATIGUE" means BUSINESS

There will be many among your customers, holding responsible positions in all walks of life, whose lives are overshadowed by the lowered state of mind and body now known as "management fatigue". This, the legacy of tension, overwork, snatched and ill-balanced meals, is a major problem of today. But just as 20th-century conditions combine to create it, 20th-century science has evolved, in OKASA, the means to solve this problem.

As befits a modern tonic, specifically designed for busy

people, OKASA is prepared in tablet form. Its ingredients are most carefully combined to provide a comprehensive treatment—to strengthen not merely a part, but the whole of the human constitution. By virtue of its new composition, OKASA also qualifies as a geriatric product of the highest order. To people seeking vigorous enjoyment of their later years, as well as to people of all ages living under pressure, OKASA will be of vital and immediate interest.

## OKASA the 20th-Century Tonic

**STANDARD SIZE (100 TABLETS) 24/6**  
(To the Chemist 16/4)

**TRIAL SIZE (50 TABLETS) 14/9**  
(To the Chemist 11/2)

OKASA is prepared by Hormo-Pharma Ltd. London, and is obtainable from your Wholesaler, or from the Wholesale Department of

**ROBERTS CHEMISTS (Bond St.) LTD.**  
76 New Bond St. London, W.1. Tel: MAY 4173



## ILODERM

*a unique self-sterile Ointment that compares with no other in the treatment of:—*

- BURNS •**
- BEDSORES •**
- IMPETIGO •**
- NAPKIN RASH •**
- DERMATITIS •**
- CRACKED NIPPLES •**

*ask your usual wholesale House for supplies*

**ILON LABORATORIES**  
LORNE STREET, HAMILTON, LANARKSHIRE

BOTANICALS  
CHEMICALS  
GUMS

NEW YORK

JKL

ESSENTIAL OILS  
SPICES  
WAXES

**CASCARA**  
**IPECAC**  
**SENEGA**  
**STYRAX**  
**STROPHANTHUS**

HAMBURG

**JOHN KELLYS (LONDON) LTD.**

24 OLD BROAD STREET, E.C.2.

Telephone: LONDON Wall 6585 (4 lines)  
Telegrams: "Ergotine, Stock, London"



**"Please provide oxygen therapy set  
with Polymasks - MS 500 48 cu. ft. oxygen"**

You might receive this prescription now that the new lightweight Single Unit Set for domiciliary oxygen therapy has been approved for use against E.C.10 orders. Developed by British Oxygen this equipment is robust, easy to operate, and is supplied with two disposable Polymask inhalers. This domiciliary oxygen therapy equipment is now an essential item in a chemist's stock.

*For demonstration and full details of how to purchase or hire this equipment, please write to*



**BRITISH OXYGEN**

British Oxygen Gases Limited  
Medical Div., Great West Road, Brentford, Middx.



BIRDS AND BEASTS—  
BOTTLED BY UNITED GLASS

## *The Budgerigar*

LIFE SPAN: indefinite (glass never ages). COLOURING: various (flint, pale, green, amber, blue, opal). HABITAT: United Glass—the place to go for the best glass packaging service:

- The finest in modern glass package design and research.
- Containers and closures made together to suit each other perfectly.
- The United Glass Packaging Advisory Bureau to give you expert help.
- The right type of container for every kind of product.

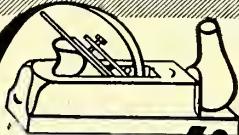
*Glass makes the finest containers of all -- and United Glass makes them by the million.  
Come and see how we can help you.*

**UNITED GLASS**

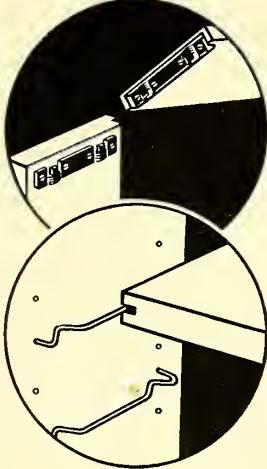
UNITED GLASS LTD., LEICESTER HOUSE, 1-4 LEICESTER SQUARE, LONDON, W.C.2  
TELEPHONE: GERRARD 8611 TELEGRAMS: GLASPAK, LESQUARE, LONDON

**Cut  
shopfitting  
costs with**

*Reemploy*



*Lundia  
shelving*



**Easy to assemble** Strong fully interlocking bars fit neatly into one another, securely holding top, bottom and centre shelf to uprights.

**Shelves simple to adjust** Special spring clips plug into uprights of Remploy-Lundia Shelves at  $\frac{3}{4}$  inch intervals. The shelves, grooved at both ends, slide along the clips, completely concealing them. Shelf grooves do not show from front view.



NO OUTSIDE LABOUR  
NEEDED TO ASSEMBLE

Fitting or refitting your shop with Remploy Lundia pre-fabricated shelving saves you money. It needs no outside labour to assemble . . . it costs far less than custom-built installations . . . and it is remarkably adaptable.

Because of the comprehensive range of sizes, Remploy-Lundia Shelving can fit into any given wall space to *within 6 inches*. Each shelf is adjustable—can be moved up or down at intervals of  $\frac{3}{4}$  inch.

Any combination of widths can be joined together, and extension bays are easily added to existing Remploy-Lundia units.

Made from polished hardwood in natural finish, Remploy-Lundia shelving is smart looking as well as practical. Remploy-Lundia can cost as little as £3 per foot by 6ft. high.

*Write today for full details of Remploy-Lundia Shelving to:*



**REMPLOY LIMITED**

Oxgate Lane, Cricklewood, London, N.W.2

Telephone: GLAdstone 8020



# Enterofagos

POLYVALENT INTESTINAL BACTERIOPHAGE

## INDICATIONS

With ENTEROFAGOS most cases of Diarrhoea respond rapidly to treatment. Colitis, Enteritis, Enterocolitis, Typhoid and Paratyphoid Fevers, Bacillary Dysentery, B. Coli Infections, Food Poisoning are equally responsive to its treatment.

*The BIOLOGICAL treatment for most intestinal, para-intestinal, kidney and bladder infections*

ENTEROFAGOS is one of a series of M.B.L. preparations which enjoy the confidence of the Medical profession in this country and overseas. It is of established therapeutic value in the treatment of infective conditions of the gastrointestinal tract, kidneys and bladder.

ENTEROFAGOS contains the active bacteriophages against Staphylococci, Streptococci, B. coli, B. Typhosus, B. paratyphosus, B. dysenteriae and Enterococci. It can be given to adults or children without fear of harmful reactions, and this combination of efficacy and safety makes ENTEROFAGOS the ideal treatment for the infective conditions indicated.

The preparation is contained in ampoules to be taken orally according to the instructions supplied.

**MEDICO-BIOLOGICAL LABORATORIES LIMITED**  
CARGREEN ROAD, SOUTH NORWOOD, S.E.25

PB20

Sole Distributors for the U.K. : ARCHER LABORATORIES LTD., CARGREEN ROAD, LONDON, S.E.25

**NEBRO**

## OFFER THE BEST CAMERAS

The full range of Carl Braun cameras caters for every possible type of 35mm & 127 user from the inexperienced novice to the discerning professional. With their very extensive set of available accessories, Paxettes are the most comprehensive and easily sold quality cameras for 1960. In the lower price bracket, Ferrania cameras are unequalled for value.

**NEVILLE BROWN**

& CO. LTD.

77 NEWMAN ST. LONDON W.1

Tel : LANgham 7161 (10 lines)

Trade Counter : 3 BERNERS MEWS, W.1 (rear of building)

**VITAMIN D3**

**PURE CRYSTALLINE D3**

**o-Cresol-&-glycerol-ether  
(Mephenesin)  
Guaiacol-&-glycerol-ether**

*Manufacturers:*

**PEBOC  
LIMITED**

Sales Office: 629/630 TOWER BUILDING  
LIVERPOOL 3 • ENGLAND

Laboratories: NORTHOLT, MIDDLESEX



IS  
BEST

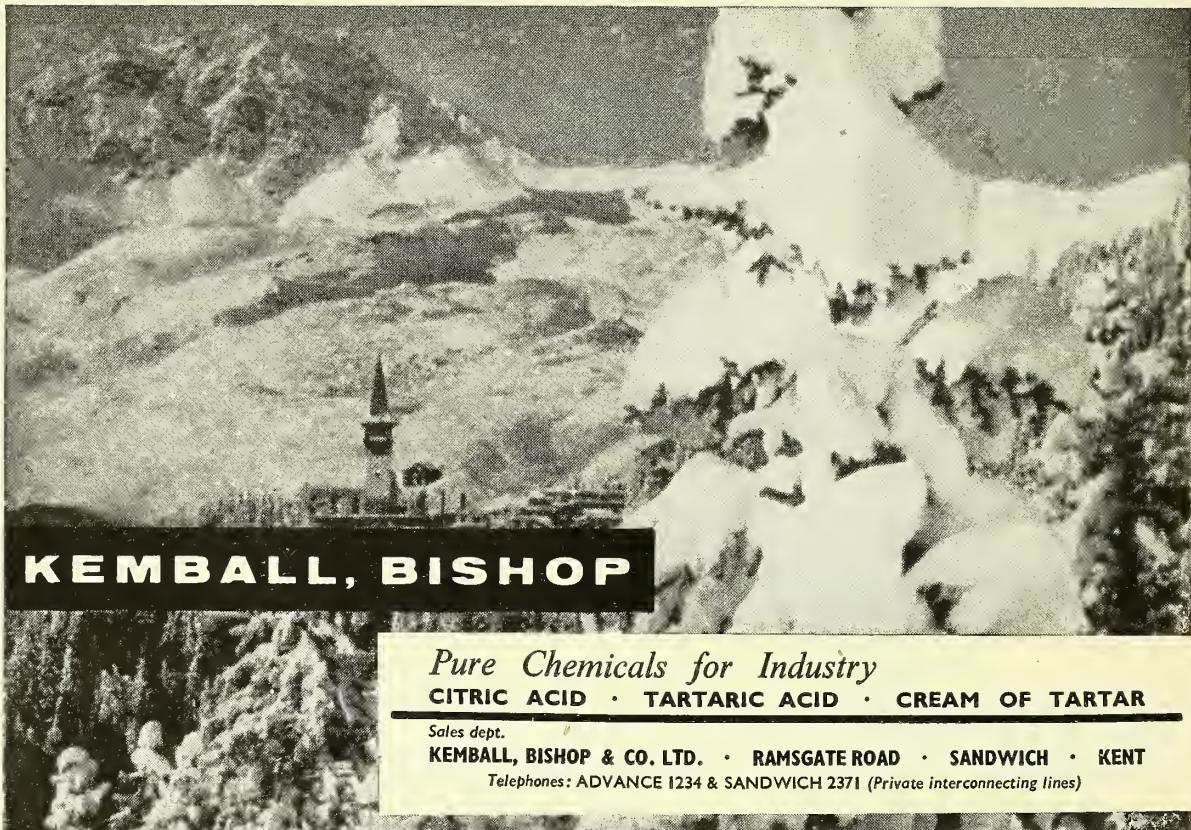
## Success follows success

Last year's BU-TO sales were the highest ever. Big BU-TO advertising in 1960 will stimulate this increasing demand. Campaign starts early Spring. Get your stocks NOW. BU-TO is best for you, too !

*Retail prices—Tubes 2/3 and 3/2,  
Polythene Bottle 6/8*

## BUY FROM YOUR WHOLESALER

BIOMETICA LTD · BOREHAM WOOD · HERTS.



**KEMBALL, BISHOP**

*Pure Chemicals for Industry*  
**CITRIC ACID • TARTARIC ACID • CREAM OF TARTAR**

*Sales dept.*  
**KEMBALL, BISHOP & CO. LTD. • RAMSGATE ROAD • SANDWICH • KENT**  
 Telephones: ADVANCE 1234 & SANDWICH 2371 (Private interconnecting lines)



**NEBRO**

## OFFER THE BEST COLOUR FILMS

For the film user who demands warm, natural colour transparencies at low cost there is no finer choice today than Ferraniacolor. With the pleasures of summer yet to come now is the time to prepare for a flood of requests for colour film by stocking up with Ferraniacolor.

**NEVILLE BROWN**

**& CO. LTD.**

77 NEWMAN ST. LONDON W.1

Tel: LANGham 7161 (10 lines)

Trade Counter: 3 BERNERS MEWS, W.1 (rear of building)

*Yalcs*  
**NYLON  
ELASTIC HOSIERY**

*Superfine* @ 63/- pair

**SERVICE** @ 53/3 pair

**FULL TRADE DISCOUNT**

**AVAILABLE  
EX STOCK**

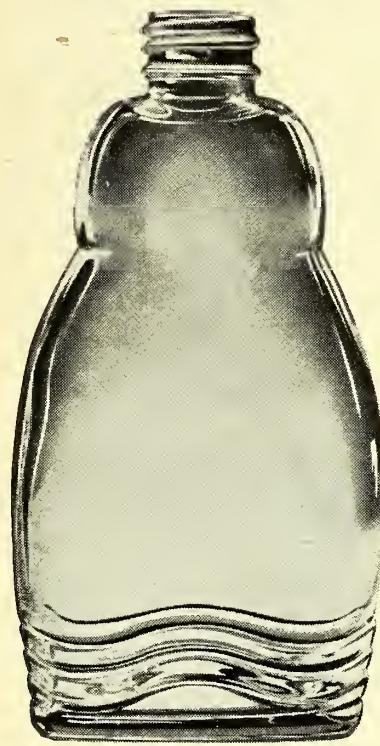
N.B.: SERVICE may be supplied against N.H.S. prescription as NYLON ELASTIC YARN (LIGHTWEIGHT) TWO-WAY STRETCH.

Display material, leaflets, shade cards available from  
Sales Agents:—

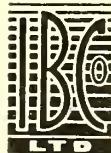
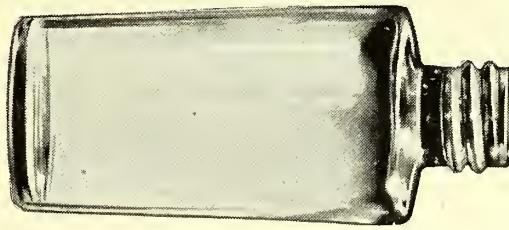
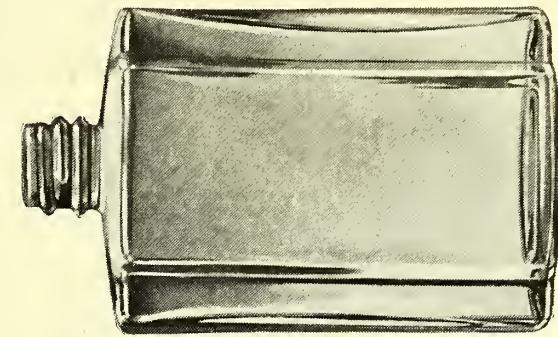
**GLENDALE (London) LTD. 37 PERCY STREET LONDON W.1.**



*High Quality Glassware*



*Designers and Manufacturers of*



# VI-LAN Lanolin Cream



the successful treatment  
for rough or chapped skin

Vi-lan is lanolin cream presented to the public in a most attractive pack and in a most convenient form. Customers are pleased with its effectiveness and continually repeat their orders, whilst our chemist friends gain the benefit of the generous profit margin.

Classified advertising in the *Sunday Express*, the *People* and the *Empire News* brings Vi-lam to the notice of almost all the households in the country. A constant display on your counter will ensure profitable business. Sample and bonus terms available on application.

**THORNTON & ROSS**  
LIMITED  
LINTHWAITE LABORATORIES  
HUDDERSFIELD ENGLAND

TR. 198

# NEBRO

# OFFER THE BEST PROJECTORS

Bauer 8mm cine and Aldis slide projectors are amongst the world's best in their own particular fields. But demand for such well-known makes as these is likely to increase still further this year, and, although complete ranges of each will be available, orders should be placed now to avoid disappointing customers.

# NEVILLE BROWN & CO. LTD.

77 NEWMAN ST. LONDON W.1

Tel: LANGham 7161 (10 lines)

Trade Counter: 3 BERNERS MEWS, W.1 (rear of building)

# PRIDE 7<sup>D</sup>



## NEW DOUBLE SHAMPOO SACHETS



## BEER SHAMPOO

a special Blend for BRUNETTES which helps to attain that much sought after high gloss so necessary with either natural or tinted BLACK hairs.

## CHAMPAGNE SHAMPOO

is specially packed for those who desire the invigorating effect of wine and spirit with a lovely FRENCH PERFUME.

## **MEDICATED SHAMPOO**

a hair health shampoo free of all harsh antiseptics. Based entirely on the Pure Natural Oils of the Pine and Ti-Trees is delightful to use and assures a clean healthy scalp.

These three shampoos are in double sachets giving sufficient for 2 complete shampoos. Smart and colourful pack.

Price 3/10 doz. plus 11½d. P.T. retail 7d. each.

From May, Roberts, Sangers or your usual wholesaler or direct

**B. N. FURMAN (Productions) LTD.,**  
**133 Fonthill Road. N.4**

You cannot do better than specify **COCKER**

# P.C.M.X. and D.C.M.X.

For many years we have been large-scale manufacturers of these widely-used intermediates for which we should be pleased to receive your enquiries and to submit samples at your request.

In addition we should like to draw your attention to the undermentioned selection from our production of fine chemicals.

D.D.T. (and certain formulations)	Dichlorphenol	M.B.T.
Terpineol B.P. and Perfumery	P.C.O.C.	M.B.T.S.
Chlorxylenol fractions	Chloral Hydrate B.P.	Benzylated-Cresylic-Acid
Chlorinated Cyanuric Acids	Terpinolene	Chloral Anhydrous
		Ortho Benzyl parachlorophenol

*The finest of the fine from :*

**COCKER CHEMICAL CO. LTD.** (Dept. CD.)  
OSWALDTWISTLE · LANCASHIRE

Telephone : Accrington 3621-3

## *Planned parenthood needs wise advice*

The responsibility for family planning shared by young married people can be helped by timely advice concerning reliable contraception methods.

Gynomin and Antemin, both of which are physiologically sound and aesthetically agreeable, provide alternative means of contraception and may be confidently recommended.

### **GYNOMIN      ANTEMIN**

Prophylactic Tablets

Tubes of 12 tablets.

(Retail 3/6) 31/6 doz.

Quantity discounts

3 doz. 5% — 6 doz. 7½%  
12 doz. 12½%

Contraceptive Cream

Tubes of 55 G.

(Retail 3/-) 2/-

*The Family Planning Association advise  
that for maximum safety, any chemical  
contraceptive should be used with a  
mechanical barrier.*

*Supplies of "Planned Parenthood" booklets and display material are  
available on request.*

**COATES & COOPER LTD.**

PYRAMID WORKS, WEST DRAYTON, MIDDX.



# Whitaker's for Dyes

"LUTON" STRAW HAT DYES and  
"AURORAL" COLD WATER DYES

are nationally advertised and are regularly requested.  
Attractive Pattern Cards and Showcards supplied.

Write for Price List giving full particulars to:

WHITAKER & CO. (KENDAL) LTD., KENDAL.

60 Years'  
Repute as  
the Family  
Remedy  
for  
Indigestion



P.A.T.A.  
Retail Prices  
1/7, 3/6,  
5/7, 13/5, 24/3  
(including  
tax).

## BOX'S

INDIGESTION PILLS  
W. H. BOX, 47 COBOURG ST., PLYMOUTH

## NEBRO

## OFFER THE BEST ACCESSORIES

The extensive range of Nebro photographic accessories covers almost every item that the amateur or professional photographer is likely to need. From tripods to dark room equipment, exposure meters to flashguns, slide mounts to projection screens—Nebro can supply it.

NEVILLE BROWN

& CO. LTD.

77 NEWMAN ST. LONDON W.1

Tel: LANgham 7161 (10 lines)

Trade Counter: 3 BERNERS MEWS, W.1 (rear of building)

# QUEEN

Non Irritant  
BEAUTY PRODUCTS

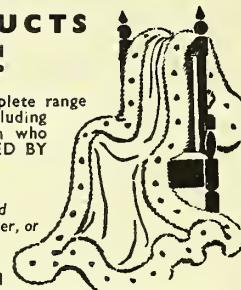
THE SAFETY FACTOR IN  
EVERY DAY MAKE-UP

Queen beauty products form a complete range of toilet and beauty preparations, including lipsticks, specially for those women who have sensitive skins. RECOMMENDED BY THE MEDICAL PROFESSION.

New terms give 33½% discount.

Obtainable from Messrs Sangers Ltd., and Allied Companies, through your Wholesaler, or direct from

BOUTALLS CHEMISTS LTD.,  
60 Lambs Conduit St., London, W.C.1



## AMBYTHENE

(BRAND OF POLYTHENE)

### MEDICINE MEASURES

UNBREAKABLE—ACCURATE

with or without close fitting lids obtainable from usual distributors at 12/1 dozen with lids or 8/9 dozen without lids.

Wholesalers' supplies  
obtainable direct from

AMPLEX APPLIANCES (KENT) LTD.  
19 DARTMOUTH ROAD, HAYES, BROMLEY, KENT  
(RAVensbourne 5531)

**"RELIANCE"  
NATURAL SPONGES**



Natural  
Deep Sea Sponges

To display a natural deep sea sponge is to sell it—because discriminating customers know that it is softer and kinder to the skin, and more lasting and more hygienic than any substitute—as well as holding three times as much water.

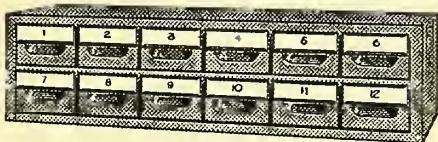
Cresswell's offer the best of the sponge crop. Please write for our price lists, and when in the West End of London a visit to make your own selection is welcomed.

**CRESSWELL BROS. SPONGES**

3-9, EARLHAM STREET, CAMBRIDGE CIRCUS, LONDON, W.C.2  
TELEPHONE TEMple Bar 5331

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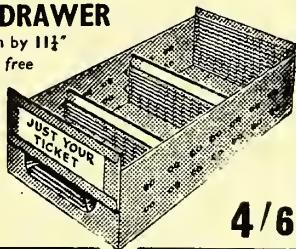


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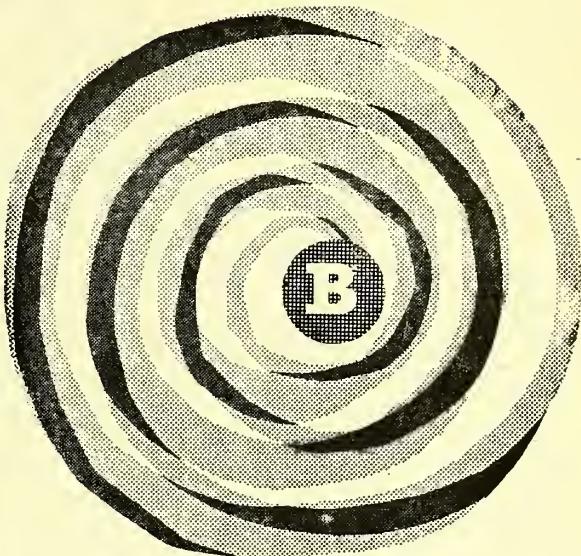
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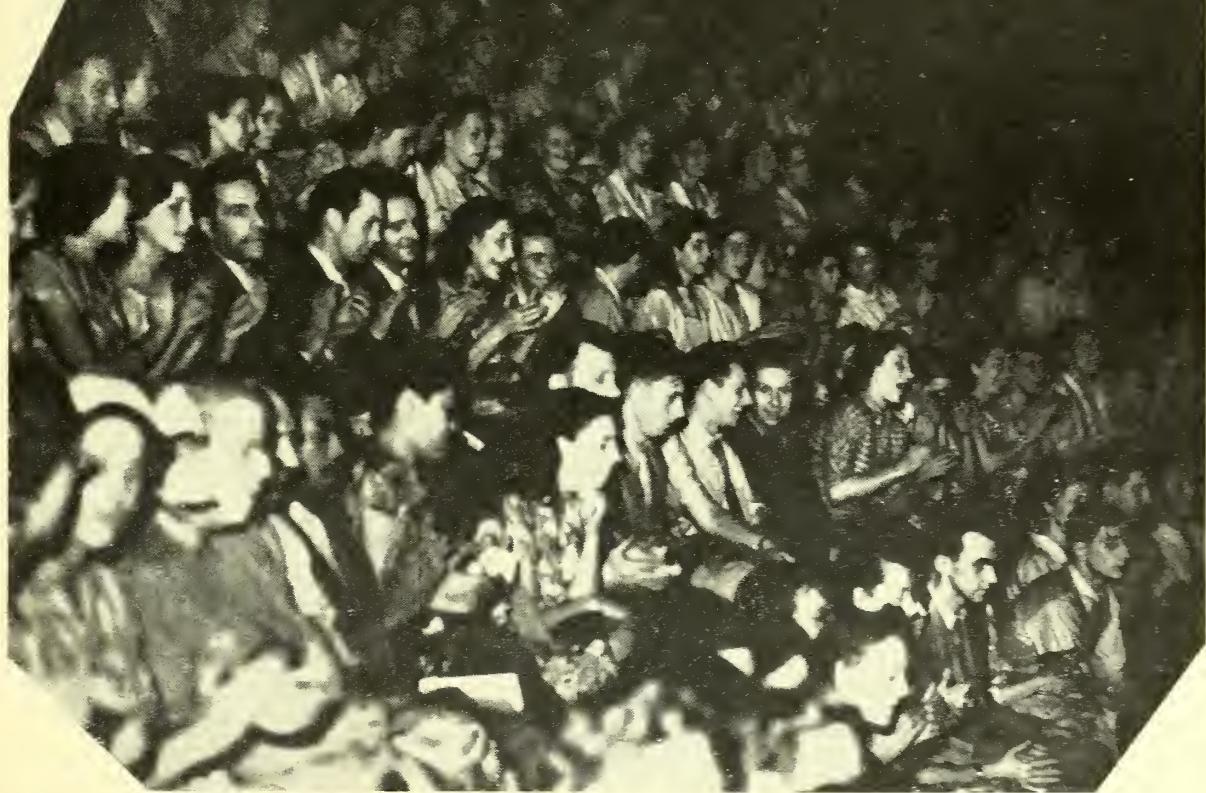
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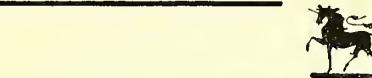
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